

# SHIELDED SMD POWER INDUCTORS / NR TYPE

## FEATURES

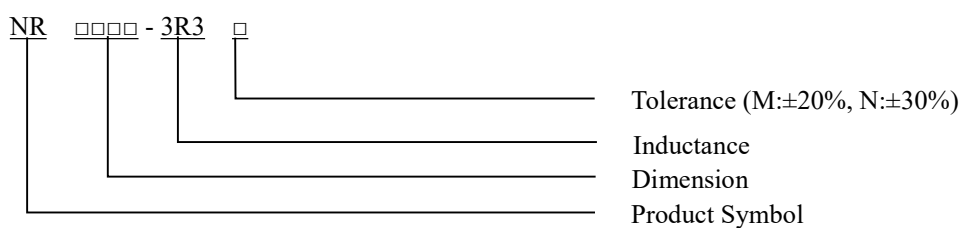
- ◆ Low profile construction and miniature size
- ◆ Magnetic shielded construction
- ◆ High current saturation
- ◆ For new generation portable product D/D converter unit.



## APPLICATIONS

- ◆ Industrial modules.
- ◆ DC/DC converters, etc.
- ◆ Various categories of consumer electronics.

## ORDERING CODE



## SHAPES

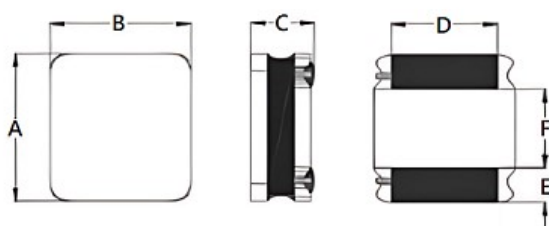


Fig.1

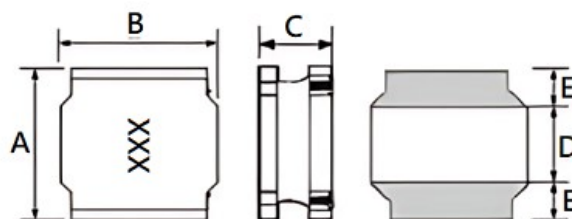


Fig.2

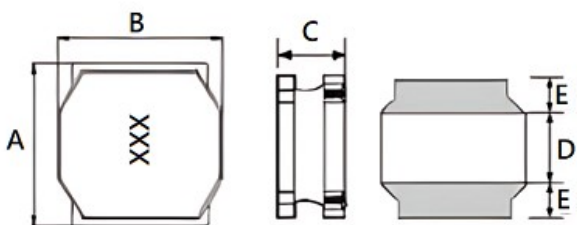


Fig.3

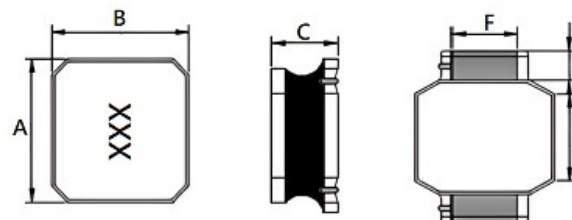


Fig.4



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

**DIMENSIONS (UNIT: mm)**

| Part No. | Fig. | A           | B           | C (MAX) | D         | E         | F (REF) |
|----------|------|-------------|-------------|---------|-----------|-----------|---------|
| NR 2010  | 1    | 2.0 ± 0.25  | 1.6 ± 0.25  | 1.10    | 1.6 ± 0.2 | 0.6 ± 0.2 | 1.0     |
| NR 2510  | 1    | 2.5 ± 0.25  | 2.0 ± 0.25  | 1.10    | 1.5 ± 0.2 | 0.8 ± 0.2 | 1.0     |
| NR 2512  | 1    | 2.5 ± 0.25  | 2.0 ± 0.25  | 1.25    | 1.5 ± 0.2 | 0.8 ± 0.2 | 1.0     |
| NR 3015  | 3    | 3.0 ± 0.20  | 3.0 ± 0.20  | 1.70    | 1.2 ± 0.3 | 0.9 ± 0.3 | ---     |
| NR 4012  | 3    | 4.0 ± 0.20  | 4.0 ± 0.20  | 1.20    | 1.6 ± 0.3 | 1.2 ± 0.3 | ---     |
| NR 4018  | 2    | 4.0 ± 0.20  | 4.0 ± 0.20  | 1.80    | 1.6 ± 0.3 | 1.2 ± 0.3 | ---     |
| NR 4020  | 2    | 4.0 ± 0.20  | 4.0 ± 0.20  | 2.10    | 1.6 ± 0.3 | 1.2 ± 0.3 | ---     |
| NR 4026  | 2    | 4.0 ± 0.20  | 4.0 ± 0.20  | 2.60    | 1.6 ± 0.3 | 1.2 ± 0.3 | ---     |
| NR 4030  | 2    | 4.0 ± 0.20  | 4.0 ± 0.20  | 3.00    | 1.6 ± 0.3 | 1.2 ± 0.3 | ---     |
| NR 5012  | 2    | 5.0 ± 0.20  | 5.0 ± 0.20  | 1.20    | 2.3(REF)  | 1.35(REF) | ---     |
| NR 5020  | 2    | 5.0 ± 0.20  | 5.0 ± 0.20  | 2.20    | 2.3(REF)  | 1.35(REF) | ---     |
| NR 5030  | 2    | 5.0 ± 0.20  | 5.0 ± 0.20  | 3.20    | 2.3(REF)  | 1.35(REF) | ---     |
| NR 5040  | 2    | 5.0 ± 0.20  | 5.0 ± 0.20  | 4.20    | 2.3(REF)  | 1.35(REF) | ---     |
| NR 6012  | 2    | 6.0 ± 0.30  | 6.0 ± 0.30  | 1.20    | 2.4(REF)  | 1.85(REF) | ---     |
| NR 6020  | 2    | 6.0 ± 0.30  | 6.0 ± 0.30  | 2.10    | 2.4(REF)  | 1.85(REF) | ---     |
| NR 6028  | 2    | 6.0 ± 0.30  | 6.0 ± 0.30  | 3.00    | 2.4(REF)  | 1.85(REF) | ---     |
| NR 6045  | 2    | 6.0 ± 0.30  | 6.0 ± 0.30  | 4.70    | 2.4(REF)  | 1.85(REF) | ---     |
| NR 6055  | 2    | 6.0 ± 0.30  | 6.0 ± 0.30  | 5.70    | 2.4(REF)  | 1.85(REF) | ---     |
| NR 8040  | 2    | 8.0 ± 0.30  | 8.0 ± 0.30  | 4.20    | 3.5(REF)  | 2.5(REF)  | ---     |
| NR 8050  | 2    | 8.0 ± 0.30  | 8.0 ± 0.30  | 5.20    | 3.5(REF)  | 2.5(REF)  | ---     |
| NR 8065  | 2    | 8.0 ± 0.30  | 8.0 ± 0.30  | 6.60    | 3.5(REF)  | 2.5(REF)  | ---     |
| NR 10050 | 4    | 10.0 ± 0.30 | 10.0 ± 0.30 | 5.30    | 6.4(REF)  | 1.8(REF)  | 4.2     |
| NR 10060 | 4    | 10.0 ± 0.30 | 10.0 ± 0.30 | 6.30    | 6.4(REF)  | 1.8(REF)  | 4.2     |



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR2010

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR2010-R47 □ | 0.47            | 1MHz           | 0.060            | 2.30    |
| NR2010-R68 □ | 0.68            | 1MHz           | 0.076            | 1.95    |
| NR2010-1R0 □ | 1.00            | 1MHz           | 0.115            | 1.65    |
| NR2010-1R5 □ | 1.50            | 1MHz           | 0.174            | 1.35    |
| NR2010-2R2 □ | 2.20            | 1MHz           | 0.265            | 1.20    |
| NR2010-3R3 □ | 3.30            | 1MHz           | 0.345            | 1.00    |
| NR2010-4R7 □ | 4.70            | 1MHz           | 0.480            | 0.75    |
| NR2010-6R8 □ | 6.80            | 1MHz           | 0.940            | 0.68    |
| NR2010-8R2 □ | 8.20            | 1MHz           | 0.800            | 0.62    |
| NR2010-100 □ | 10              | 1MHz           | 1.000            | 0.60    |
| NR2010-120 □ | 12              | 1MHz           | 1.430            | 0.55    |
| NR2010-150 □ | 15              | 1MHz           | 1.700            | 0.50    |
| NR2010-180 □ | 18              | 1MHz           | 1.850            | 0.40    |
| NR2010-220 □ | 22              | 1MHz           | 2.000            | 0.32    |

### ELECTRICAL CHARACTERISTICS FOR NR2510

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR2510-R24 □ | 0.24            | 1MHz           | 0.034            | 3.50    |
| NR2510-R33 □ | 0.33            | 1MHz           | 0.038            | 3.20    |
| NR2510-R47 □ | 0.47            | 1MHz           | 0.042            | 2.80    |
| NR2510-R68 □ | 0.68            | 1MHz           | 0.049            | 2.30    |
| NR2510-1R0 □ | 1.00            | 1MHz           | 0.066            | 2.00    |
| NR2510-1R5 □ | 1.50            | 1MHz           | 0.110            | 1.70    |
| NR2510-2R2 □ | 2.20            | 1MHz           | 0.145            | 1.55    |
| NR2510-3R3 □ | 3.30            | 1MHz           | 0.204            | 1.10    |
| NR2510-4R7 □ | 4.70            | 1MHz           | 0.300            | 0.95    |
| NR2510-6R8 □ | 6.80            | 1MHz           | 0.444            | 0.90    |
| NR2510-100 □ | 10              | 1MHz           | 0.564            | 0.65    |
| NR2510-150 □ | 15              | 1MHz           | 0.960            | 0.55    |
| NR2510-220 □ | 22              | 1MHz           | 1.344            | 0.40    |



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### ELECTRICAL CHARACTERISTICS FOR NR2512

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR2512-R24 □ | 0.24            | 1MHz           | 0.028            | 4.05    |
| NR2512-R33 □ | 0.33            | 1MHz           | 0.040            | 4.00    |
| NR2512-R47 □ | 0.47            | 1MHz           | 0.061            | 3.60    |
| NR2512-R56 □ | 0.56            | 1MHz           | 0.066            | 3.30    |
| NR2512-R68 □ | 0.68            | 1MHz           | 0.074            | 3.28    |
| NR2512-R82 □ | 0.82            | 1MHz           | 0.085            | 2.60    |
| NR2512-1R0 □ | 1.00            | 1MHz           | 0.090            | 2.45    |
| NR2512-1R2 □ | 1.20            | 1MHz           | 0.129            | 2.38    |
| NR2512-1R5 □ | 1.50            | 1MHz           | 0.147            | 2.05    |
| NR2512-2R2 □ | 2.20            | 1MHz           | 0.216            | 1.90    |
| NR2512-3R3 □ | 3.30            | 1MHz           | 0.264            | 1.50    |
| NR2512-4R7 □ | 4.70            | 1MHz           | 0.377            | 1.35    |
| NR2512-5R6 □ | 5.60            | 1MHz           | 0.538            | 1.11    |
| NR2512-6R8 □ | 6.80            | 1MHz           | 0.581            | 0.98    |
| NR2512-8R2 □ | 8.20            | 1MHz           | 0.658            | 0.90    |
| NR2512-100 □ | 10              | 1MHz           | 0.690            | 0.79    |
| NR2512-120 □ | 12              | 1MHz           | 0.810            | 0.75    |
| NR2512-150 □ | 15              | 1MHz           | 0.900            | 0.65    |
| NR2512-180 □ | 18              | 1MHz           | 1.000            | 0.55    |
| NR2512-220 □ | 22              | 1MHz           | 1.100            | 0.50    |
| NR2512-330 □ | 33              | 1MHz           | 1.500            | 0.38    |
| NR2512-470 □ | 47              | 1MHz           | 2.000            | 0.30    |

### ELECTRICAL CHARACTERISTICS FOR NR3015

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR3015-R47 □ | 0.47            | 100KHz         | 0.027            | 2.50    |
| NR3015-1R0 □ | 1.00            | 100KHz         | 0.039            | 2.32    |
| NR3015-1R5 □ | 1.50            | 100KHz         | 0.065            | 2.00    |
| NR3015-2R2 □ | 2.20            | 100KHz         | 0.078            | 1.60    |
| NR3015-3R3 □ | 3.30            | 100KHz         | 0.104            | 1.32    |
| NR3015-4R7 □ | 4.70            | 100KHz         | 0.163            | 1.10    |
| NR3015-6R8 □ | 6.80            | 100KHz         | 0.260            | 0.85    |
| NR3015-100 □ | 10              | 100KHz         | 0.325            | 0.72    |
| NR3015-150 □ | 15              | 100KHz         | 0.455            | 0.66    |
| NR3015-220 □ | 22              | 100KHz         | 0.598            | 0.52    |
| NR3015-330 □ | 33              | 100KHz         | 1.066            | 0.40    |
| NR3015-470 □ | 47              | 100KHz         | 1.625            | 0.30    |
| NR3015-101 □ | 100             | 100KHz         | 4.043            | 0.23    |
| NR3015-151 □ | 150             | 100KHz         | 4.940            | 0.18    |



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### ELECTRICAL CHARACTERISTICS FOR NR4012

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR4012-R68 □ | 0.68            | 100KHz         | 0.058            | 3.20    |
| NR4012-R82 □ | 0.82            | 100KHz         | 0.062            | 3.02    |
| NR4012-1R0 □ | 1.00            | 100KHz         | 0.065            | 2.61    |
| NR4012-1R5 □ | 1.50            | 100KHz         | 0.094            | 2.50    |
| NR4012-2R2 □ | 2.20            | 100KHz         | 0.105            | 2.10    |
| NR4012-3R3 □ | 3.30            | 100KHz         | 0.149            | 1.80    |
| NR4012-4R7 □ | 4.70            | 100KHz         | 0.163            | 1.20    |
| NR4012-6R8 □ | 6.80            | 100KHz         | 0.286            | 1.08    |
| NR4012-100 □ | 10              | 100KHz         | 0.442            | 0.95    |
| NR4012-150 □ | 15              | 100KHz         | 0.651            | 0.80    |
| NR4012-220 □ | 22              | 100KHz         | 1.010            | 0.65    |
| NR4012-330 □ | 33              | 100KHz         | 1.280            | 0.55    |
| NR4012-470 □ | 47              | 100KHz         | 2.210            | 0.45    |
| NR4012-680 □ | 68              | 100KHz         | 1.950            | 0.38    |
| NR4012-820 □ | 82              | 100KHz         | 2.140            | 0.28    |
| NR4012-101 □ | 100             | 100KHz         | 2.210            | 0.25    |

### ELECTRICAL CHARACTERISTICS FOR NR4018

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR4018-R24 □ | 0.24            | 100KHz         | 0.018            | 6.00    |
| NR4018-R33 □ | 0.33            | 100KHz         | 0.020            | 5.50    |
| NR4018-R47 □ | 0.47            | 100KHz         | 0.025            | 5.00    |
| NR4018-R56 □ | 0.56            | 100KHz         | 0.027            | 4.80    |
| NR4018-1R0 □ | 1.00            | 100KHz         | 0.033            | 4.20    |
| NR4018-1R5 □ | 1.50            | 100KHz         | 0.039            | 3.35    |
| NR4018-2R2 □ | 2.20            | 100KHz         | 0.059            | 2.70    |
| NR4018-3R3 □ | 3.30            | 100KHz         | 0.091            | 2.45    |
| NR4018-4R7 □ | 4.70            | 100KHz         | 0.117            | 1.70    |
| NR4018-6R8 □ | 6.80            | 100KHz         | 0.143            | 1.45    |
| NR4018-8R2 □ | 8.20            | 100KHz         | 0.188            | 1.38    |
| NR4018-100 □ | 10              | 100KHz         | 0.234            | 1.30    |
| NR4018-150 □ | 15              | 100KHz         | 0.325            | 0.94    |
| NR4018-220 □ | 22              | 100KHz         | 0.468            | 0.80    |
| NR4018-330 □ | 33              | 100KHz         | 0.689            | 0.65    |
| NR4018-470 □ | 47              | 100KHz         | 0.845            | 0.57    |
| NR4018-680 □ | 68              | 100KHz         | 1.300            | 0.47    |
| NR4018-101 □ | 100             | 100KHz         | 2.275            | 0.40    |
| NR4018-151 □ | 150             | 100KHz         | 3.250            | 0.31    |
| NR4018-221 □ | 220             | 100KHz         | 5.200            | 0.27    |
| NR4018-331 □ | 330             | 100KHz         | 8.450            | 0.20    |



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### ELECTRICAL CHARACTERISTICS FOR NR4020

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR4020-1R0 □ | 1.0             | 100KHz         | 0.038            | 4.78    |
| NR4020-1R5 □ | 1.5             | 100KHz         | 0.046            | 4.45    |
| NR4020-2R2 □ | 2.2             | 100KHz         | 0.052            | 3.40    |
| NR4020-3R3 □ | 3.3             | 100KHz         | 0.091            | 3.20    |
| NR4020-4R7 □ | 4.7             | 100KHz         | 0.098            | 2.35    |
| NR4020-5R6 □ | 5.6             | 100KHz         | 0.117            | 2.20    |
| NR4020-6R8 □ | 6.8             | 100KHz         | 0.163            | 2.00    |
| NR4020-8R2 □ | 8.2             | 100KHz         | 0.192            | 1.75    |
| NR4020-100 □ | 10              | 100KHz         | 0.215            | 1.60    |
| NR4020-150 □ | 15              | 100KHz         | 0.299            | 1.35    |
| NR4020-220 □ | 22              | 100KHz         | 0.455            | 1.05    |
| NR4020-330 □ | 33              | 100KHz         | 0.715            | 0.85    |
| NR4020-470 □ | 47              | 100KHz         | 0.923            | 0.74    |
| NR4020-560 □ | 56              | 100KHz         | 1.050            | 0.66    |
| NR4020-680 □ | 68              | 100KHz         | 1.380            | 0.61    |
| NR4020-820 □ | 82              | 100KHz         | 1.520            | 0.50    |
| NR4020-101 □ | 100             | 100KHz         | 2.020            | 0.48    |
| NR4020-221 □ | 220             | 100KHz         | 5.340            | 0.30    |

### ELECTRICAL CHARACTERISTICS FOR NR4026

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR4026-1R0 □ | 1.0             | 100KHz         | 0.024            | 3.30    |
| NR4026-1R2 □ | 1.2             | 100KHz         | 0.030            | 3.10    |
| NR4026-1R5 □ | 1.5             | 100KHz         | 0.035            | 3.00    |
| NR4026-2R2 □ | 2.2             | 100KHz         | 0.040            | 2.10    |
| NR4026-3R3 □ | 3.3             | 100KHz         | 0.050            | 1.80    |
| NR4026-4R7 □ | 4.7             | 100KHz         | 0.055            | 1.45    |
| NR4026-6R8 □ | 6.8             | 100KHz         | 0.065            | 1.30    |
| NR4026-100 □ | 10              | 100KHz         | 0.085            | 1.00    |
| NR4026-150 □ | 15              | 100KHz         | 0.110            | 0.90    |
| NR4026-220 □ | 22              | 100KHz         | 0.165            | 0.60    |
| NR4026-330 □ | 33              | 100KHz         | 0.270            | 0.55    |
| NR4026-470 □ | 47              | 100KHz         | 0.300            | 0.40    |



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### ELECTRICAL CHARACTERISTICS FOR NR4030

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR4030-R24 □ | 0.24            | 100KHz         | 0.012            | 8.00    |
| NR4030-R47 □ | 0.47            | 100KHz         | 0.013            | 7.50    |
| NR4030-R68 □ | 0.68            | 100KHz         | 0.015            | 6.80    |
| NR4030-1R0 □ | 1.00            | 100KHz         | 0.020            | 5.26    |
| NR4030-1R5 □ | 1.50            | 100KHz         | 0.026            | 4.84    |
| NR4030-2R2 □ | 2.20            | 100KHz         | 0.039            | 4.10    |
| NR4030-3R3 □ | 3.30            | 100KHz         | 0.052            | 3.30    |
| NR4030-4R7 □ | 4.70            | 100KHz         | 0.078            | 2.90    |
| NR4030-5R6 □ | 5.60            | 100KHz         | 0.085            | 2.75    |
| NR4030-6R8 □ | 6.80            | 100KHz         | 0.117            | 2.60    |
| NR4030-8R2 □ | 8.20            | 100KHz         | 0.121            | 2.10    |
| NR4030-100 □ | 10              | 100KHz         | 0.135            | 1.95    |
| NR4030-120 □ | 12              | 100KHz         | 0.175            | 1.70    |
| NR4030-150 □ | 15              | 100KHz         | 0.247            | 1.65    |
| NR4030-220 □ | 22              | 100KHz         | 0.292            | 1.30    |
| NR4030-330 □ | 33              | 100KHz         | 0.429            | 1.10    |
| NR4030-470 □ | 47              | 100KHz         | 0.579            | 0.95    |
| NR4030-560 □ | 56              | 100KHz         | 0.722            | 0.85    |
| NR4030-680 □ | 68              | 100KHz         | 1.128            | 0.72    |
| NR4030-820 □ | 82              | 100KHz         | 1.378            | 0.66    |
| NR4030-101 □ | 100             | 100KHz         | 1.495            | 0.60    |
| NR4030-151 □ | 150             | 100KHz         | 2.340            | 0.50    |
| NR4030-181 □ | 180             | 100KHz         | 3.100            | 0.45    |
| NR4030-221 □ | 220             | 100KHz         | 3.250            | 0.40    |
| NR4030-331 □ | 330             | 100KHz         | 5.200            | 0.30    |
| NR4030-471 □ | 470             | 100KHz         | 9.360            | 0.28    |
| NR4030-681 □ | 680             | 100KHz         | 9.854            | 0.26    |
| NR4030-222 □ | 2200            | 100KHz         | 27.00            | 0.13    |



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### ELECTRICAL CHARACTERISTICS FOR NR5012

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR5012-R47 □ | 0.47            | 100KHz         | 0.065            | 4.50    |
| NR5012-1R0 □ | 1.00            | 100KHz         | 0.085            | 4.00    |
| NR5012-1R5 □ | 1.50            | 100KHz         | 0.104            | 3.20    |
| NR5012-2R2 □ | 2.20            | 100KHz         | 0.140            | 2.80    |
| NR5012-3R3 □ | 3.30            | 100KHz         | 0.188            | 2.30    |
| NR5012-4R7 □ | 4.70            | 100KHz         | 0.240            | 1.90    |
| NR5012-6R8 □ | 6.80            | 100KHz         | 0.364            | 1.60    |
| NR5012-100 □ | 10              | 100KHz         | 0.480            | 1.20    |
| NR5012-150 □ | 15              | 100KHz         | 0.650            | 1.00    |
| NR5012-220 □ | 22              | 100KHz         | 1.027            | 0.95    |
| NR5012-330 □ | 33              | 100KHz         | 1.560            | 0.85    |

### ELECTRICAL CHARACTERISTICS FOR NR5020

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR5020-R22 □ | 0.22            | 100KHz         | 0.018            | 9.00    |
| NR5020-R24 □ | 0.24            | 100KHz         | 0.020            | 8.00    |
| NR5020-R47 □ | 0.47            | 100KHz         | 0.022            | 6.50    |
| NR5020-R56 □ | 0.56            | 100KHz         | 0.024            | 6.00    |
| NR5020-R68 □ | 0.68            | 100KHz         | 0.026            | 5.10    |
| NR5020-1R0 □ | 1.00            | 100KHz         | 0.029            | 4.20    |
| NR5020-1R5 □ | 1.50            | 100KHz         | 0.039            | 3.90    |
| NR5020-2R2 □ | 2.20            | 100KHz         | 0.052            | 3.20    |
| NR5020-3R3 □ | 3.30            | 100KHz         | 0.065            | 2.80    |
| NR5020-4R7 □ | 4.70            | 100KHz         | 0.074            | 2.50    |
| NR5020-5R6 □ | 5.60            | 100KHz         | 0.083            | 2.30    |
| NR5020-6R8 □ | 6.80            | 100KHz         | 0.119            | 2.05    |
| NR5020-8R2 □ | 8.20            | 100KHz         | 0.127            | 1.85    |
| NR5020-100 □ | 10              | 100KHz         | 0.163            | 1.70    |
| NR5020-150 □ | 15              | 100KHz         | 0.215            | 1.35    |
| NR5020-180 □ | 18              | 100KHz         | 0.260            | 1.25    |
| NR5020-220 □ | 22              | 100KHz         | 0.294            | 1.15    |
| NR5020-330 □ | 33              | 100KHz         | 0.520            | 0.92    |
| NR5020-470 □ | 47              | 100KHz         | 0.754            | 0.77    |
| NR5020-680 □ | 68              | 100KHz         | 0.962            | 0.65    |
| NR5020-101 □ | 100             | 100KHz         | 1.430            | 0.53    |
| NR5020-121 □ | 120             | 100KHz         | 1.510            | 0.42    |
| NR5020-151 □ | 150             | 100KHz         | 1.950            | 0.40    |
| NR5020-201 □ | 200             | 100KHz         | 2.600            | 0.35    |
| NR5020-221 □ | 220             | 100KHz         | 3.000            | 0.33    |
| NR5020-471 □ | 470             | 100KHz         | 6.630            | 0.20    |
| NR5020-561 □ | 560             | 100KHz         | 7.150            | 0.18    |
| NR5020-681 □ | 680             | 100KHz         | 7.410            | 0.17    |
| NR5020-122 □ | 1200            | 100KHz         | 14.70            | 0.10    |



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR5030

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR5030-R47 □ | 0.47            | 100KHz         | 0.013            | 8.00    |
| NR5030-R56 □ | 0.56            | 100KHz         | 0.015            | 7.50    |
| NR5030-1R0 □ | 1.00            | 100KHz         | 0.020            | 7.00    |
| NR5030-1R5 □ | 1.50            | 100KHz         | 0.024            | 5.50    |
| NR5030-2R2 □ | 2.20            | 100KHz         | 0.031            | 4.50    |
| NR5030-3R3 □ | 3.30            | 100KHz         | 0.039            | 4.00    |
| NR5030-4R7 □ | 4.70            | 100KHz         | 0.065            | 3.00    |
| NR5030-5R6 □ | 5.60            | 100KHz         | 0.070            | 2.90    |
| NR5030-6R8 □ | 6.80            | 100KHz         | 0.075            | 2.80    |
| NR5030-100 □ | 10              | 100KHz         | 0.100            | 2.10    |
| NR5030-120 □ | 12              | 100KHz         | 0.112            | 2.00    |
| NR5030-150 □ | 15              | 100KHz         | 0.156            | 1.70    |
| NR5030-220 □ | 22              | 100KHz         | 0.260            | 1.40    |
| NR5030-330 □ | 33              | 100KHz         | 0.351            | 1.20    |
| NR5030-470 □ | 47              | 100KHz         | 0.468            | 0.90    |
| NR5030-680 □ | 68              | 100KHz         | 0.611            | 0.77    |
| NR5030-101 □ | 100             | 100KHz         | 0.988            | 0.75    |
| NR5030-151 □ | 150             | 100KHz         | 1.470            | 0.55    |
| NR5030-181 □ | 180             | 100KHz         | 1.820            | 0.48    |
| NR5030-221 □ | 220             | 100KHz         | 2.080            | 0.45    |
| NR5030-331 □ | 330             | 100KHz         | 3.500            | 0.35    |
| NR5030-391 □ | 390             | 100KHz         | 3.770            | 0.33    |
| NR5030-471 □ | 470             | 100KHz         | 4.700            | 0.30    |
| NR5030-681 □ | 680             | 100KHz         | 6.500            | 0.24    |
| NR5030-102 □ | 1000            | 100KHz         | 10.80            | 0.20    |
| NR5030-152 □ | 1500            | 100KHz         | 16.90            | 0.17    |



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR5040

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR5040-1R0 □ | 1.0             | 100KHz         | 0.017            | 7.35    |
| NR5040-1R5 □ | 1.5             | 100KHz         | 0.023            | 6.30    |
| NR5040-2R2 □ | 2.2             | 100KHz         | 0.025            | 4.90    |
| NR5040-3R3 □ | 3.3             | 100KHz         | 0.031            | 3.95    |
| NR5040-4R7 □ | 4.7             | 100KHz         | 0.042            | 3.50    |
| NR5040-5R6 □ | 5.6             | 100KHz         | 0.046            | 3.00    |
| NR5040-6R8 □ | 6.8             | 100KHz         | 0.056            | 2.90    |
| NR5040-8R2 □ | 8.2             | 100KHz         | 0.062            | 2.70    |
| NR5040-100 □ | 10              | 100KHz         | 0.083            | 2.35    |
| NR5040-150 □ | 15              | 100KHz         | 0.112            | 2.00    |
| NR5040-220 □ | 22              | 100KHz         | 0.168            | 1.60    |
| NR5040-330 □ | 33              | 100KHz         | 0.244            | 1.30    |
| NR5040-470 □ | 47              | 100KHz         | 0.354            | 1.10    |
| NR5040-560 □ | 56              | 100KHz         | 0.494            | 1.00    |
| NR5040-680 □ | 68              | 100KHz         | 0.520            | 0.90    |
| NR5040-101 □ | 100             | 100KHz         | 0.728            | 0.75    |
| NR5040-151 □ | 150             | 100KHz         | 0.975            | 0.65    |
| NR5040-181 □ | 180             | 100KHz         | 1.690            | 0.60    |
| NR5040-201 □ | 200             | 100KHz         | 1.760            | 0.55    |
| NR5040-221 □ | 220             | 100KHz         | 1.820            | 0.48    |
| NR5040-331 □ | 330             | 100KHz         | 2.730            | 0.42    |
| NR5040-471 □ | 470             | 100KHz         | 3.900            | 0.37    |
| NR5040-561 □ | 560             | 100KHz         | 4.920            | 0.33    |
| NR5040-681 □ | 680             | 100KHz         | 5.070            | 0.30    |
| NR5040-102 □ | 1000            | 100KHz         | 7.800            | 0.25    |
| NR5040-152 □ | 1500            | 100KHz         | 13.30            | 0.20    |

### ELECTRICAL CHARACTERISTICS FOR NR6012

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR6012-1R0 □ | 1               | 100KHz         | 0.065            | 2.5     |
| NR6012-100 □ | 10              | 100KHz         | 0.390            | 1.2     |
| NR6012-101 □ | 100             | 100KHz         | 3.900            | 0.4     |



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR6020

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR6020-R68 □ | 0.68            | 100KHz         | 0.017            | 6.55    |
| NR6020-R82 □ | 0.82            | 100KHz         | 0.017            | 5.30    |
| NR6020-1R0 □ | 1.00            | 100KHz         | 0.026            | 4.30    |
| NR6020-1R5 □ | 1.50            | 100KHz         | 0.032            | 4.25    |
| NR6020-2R2 □ | 2.20            | 100KHz         | 0.045            | 3.75    |
| NR6020-3R3 □ | 3.30            | 100KHz         | 0.058            | 3.15    |
| NR6020-4R7 □ | 4.70            | 100KHz         | 0.075            | 3.00    |
| NR6020-5R6 □ | 5.60            | 100KHz         | 0.091            | 2.40    |
| NR6020-6R8 □ | 6.80            | 100KHz         | 0.110            | 2.20    |
| NR6020-100 □ | 10              | 100KHz         | 0.156            | 1.75    |
| NR6020-120 □ | 12              | 100KHz         | 0.182            | 1.60    |
| NR6020-150 □ | 15              | 100KHz         | 0.208            | 1.45    |
| NR6020-180 □ | 18              | 100KHz         | 0.245            | 1.30    |
| NR6020-220 □ | 22              | 100KHz         | 0.312            | 1.20    |
| NR6020-330 □ | 33              | 100KHz         | 0.440            | 0.90    |
| NR6020-470 □ | 47              | 100KHz         | 0.650            | 0.75    |
| NR6020-680 □ | 68              | 100KHz         | 0.960            | 0.68    |
| NR6020-101 □ | 100             | 100KHz         | 1.450            | 0.50    |
| NR6020-221 □ | 220             | 100KHz         | 3.120            | 0.35    |
| NR6020-331 □ | 330             | 100KHz         | 4.650            | 0.28    |
| NR6020-102 □ | 1000            | 100KHz         | 14.35            | 0.18    |



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR6028

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR6028-1R0 □ | 1.0             | 100KHz         | 0.016            | 6.70    |
| NR6028-1R5 □ | 1.5             | 100KHz         | 0.020            | 6.00    |
| NR6028-2R2 □ | 2.2             | 100KHz         | 0.026            | 5.10    |
| NR6028-3R3 □ | 3.3             | 100KHz         | 0.033            | 3.63    |
| NR6028-4R7 □ | 4.7             | 100KHz         | 0.039            | 3.00    |
| NR6028-5R6 □ | 5.6             | 100KHz         | 0.056            | 2.80    |
| NR6028-6R8 □ | 6.8             | 100KHz         | 0.061            | 2.60    |
| NR6028-8R2 □ | 8.2             | 100KHz         | 0.072            | 2.40    |
| NR6028-100 □ | 10              | 100KHz         | 0.094            | 2.20    |
| NR6028-120 □ | 12              | 100KHz         | 0.104            | 1.95    |
| NR6028-150 □ | 15              | 100KHz         | 0.143            | 1.85    |
| NR6028-180 □ | 18              | 100KHz         | 0.156            | 1.52    |
| NR6028-220 □ | 22              | 100KHz         | 0.182            | 1.45    |
| NR6028-330 □ | 33              | 100KHz         | 0.241            | 1.35    |
| NR6028-470 □ | 47              | 100KHz         | 0.364            | 1.15    |
| NR6028-560 □ | 56              | 100KHz         | 0.442            | 1.05    |
| NR6028-680 □ | 68              | 100KHz         | 0.458            | 0.95    |
| NR6028-820 □ | 82              | 100KHz         | 0.650            | 0.80    |
| NR6028-101 □ | 100             | 100KHz         | 0.715            | 0.75    |
| NR6028-681 □ | 680             | 100KHz         | 5.070            | 0.28    |
| NR6028-102 □ | 1000            | 100KHz         | 7.410            | 0.18    |



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR6045

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR6045-R68 □ | 0.68            | 100KHz         | 0.011            | 9.50    |
| NR6045-1R0 □ | 1.00            | 100KHz         | 0.014            | 9.00    |
| NR6045-1R2 □ | 1.20            | 100KHz         | 0.015            | 8.35    |
| NR6045-1R5 □ | 1.50            | 100KHz         | 0.016            | 7.50    |
| NR6045-2R2 □ | 2.20            | 100KHz         | 0.022            | 6.50    |
| NR6045-3R3 □ | 3.30            | 100KHz         | 0.031            | 5.30    |
| NR6045-3R6 □ | 3.60            | 100KHz         | 0.032            | 5.00    |
| NR6045-4R7 □ | 4.70            | 100KHz         | 0.034            | 4.50    |
| NR6045-5R6 □ | 5.60            | 100KHz         | 0.040            | 3.70    |
| NR6045-6R8 □ | 6.80            | 100KHz         | 0.045            | 3.30    |
| NR6045-8R2 □ | 8.20            | 100KHz         | 0.055            | 3.10    |
| NR6045-100 □ | 10              | 100KHz         | 0.067            | 3.00    |
| NR6045-120 □ | 12              | 100KHz         | 0.075            | 2.80    |
| NR6045-150 □ | 15              | 100KHz         | 0.100            | 2.50    |
| NR6045-180 □ | 18              | 100KHz         | 0.122            | 2.20    |
| NR6045-220 □ | 22              | 100KHz         | 0.149            | 2.05    |
| NR6045-270 □ | 27              | 100KHz         | 0.165            | 1.90    |
| NR6045-330 □ | 33              | 100KHz         | 0.195            | 1.65    |
| NR6045-360 □ | 36              | 100KHz         | 0.225            | 1.62    |
| NR6045-470 □ | 47              | 100KHz         | 0.286            | 1.40    |
| NR6045-560 □ | 56              | 100KHz         | 0.338            | 1.30    |
| NR6045-680 □ | 68              | 100KHz         | 0.377            | 1.20    |
| NR6045-820 □ | 82              | 100KHz         | 0.495            | 1.05    |
| NR6045-101 □ | 100             | 100KHz         | 0.559            | 0.95    |
| NR6045-121 □ | 120             | 100KHz         | 0.629            | 0.85    |
| NR6045-151 □ | 150             | 100KHz         | 0.884            | 0.80    |
| NR6045-181 □ | 180             | 100KHz         | 1.150            | 0.75    |
| NR6045-221 □ | 220             | 100KHz         | 1.290            | 0.70    |
| NR6045-271 □ | 270             | 100KHz         | 1.370            | 0.65    |
| NR6045-301 □ | 300             | 100KHz         | 1.760            | 0.60    |
| NR6045-331 □ | 330             | 100KHz         | 1.850            | 0.57    |
| NR6045-471 □ | 470             | 100KHz         | 2.570            | 0.50    |
| NR6045-561 □ | 560             | 100KHz         | 3.250            | 0.44    |
| NR6045-681 □ | 680             | 100KHz         | 4.070            | 0.42    |
| NR6045-801 □ | 800             | 100KHz         | 4.810            | 0.35    |
| NR6045-102 □ | 1000            | 100KHz         | 5.900            | 0.32    |
| NR6045-132 □ | 1300            | 100KHz         | 7.020            | 0.27    |
| NR6045-152 □ | 1500            | 100KHz         | 8.450            | 0.24    |
| NR6045-202 □ | 2000            | 100KHz         | 12.35            | 0.22    |
| NR6045-222 □ | 2200            | 100KHz         | 12.48            | 0.20    |
| NR6045-252 □ | 2500            | 100KHz         | 15.47            | 0.19    |
| NR6045-302 □ | 3000            | 100KHz         | 19.50            | 0.18    |
| NR6045-332 □ | 3300            | 100KHz         | 21.50            | 0.17    |
| NR6045-472 □ | 4700            | 100KHz         | 27.30            | 0.15    |
| NR6045-103 □ | 10000           | 100KHz         | 53.70            | 0.10    |



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR6055

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR6055-3R3 □ | 3.3             | 100KHz         | 0.026            | 5.5     |
| NR6055-4R7 □ | 4.7             | 100KHz         | 0.030            | 4.8     |
| NR6055-100 □ | 10              | 100KHz         | 0.050            | 3.3     |

### ELECTRICAL CHARACTERISTICS FOR NR8040

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR8040-R47 □ | 0.47            | 100KHz         | 0.007            | 12.00   |
| NR8040-R68 □ | 0.68            | 100KHz         | 0.011            | 10.00   |
| NR8040-R82 □ | 0.82            | 100KHz         | 0.012            | 9.80    |
| NR8040-1R0 □ | 1.00            | 100KHz         | 0.013            | 9.60    |
| NR8040-1R5 □ | 1.50            | 100KHz         | 0.014            | 7.70    |
| NR8040-2R0 □ | 2.00            | 100KHz         | 0.016            | 7.10    |
| NR8040-2R2 □ | 2.20            | 100KHz         | 0.017            | 7.00    |
| NR8040-2R6 □ | 2.60            | 100KHz         | 0.018            | 6.90    |
| NR8040-3R0 □ | 3.00            | 100KHz         | 0.022            | 6.50    |
| NR8040-3R3 □ | 3.30            | 100KHz         | 0.023            | 6.40    |
| NR8040-3R6 □ | 3.60            | 100KHz         | 0.024            | 6.30    |
| NR8040-3R9 □ | 3.90            | 100KHz         | 0.025            | 6.20    |
| NR8040-4R7 □ | 4.70            | 100KHz         | 0.026            | 5.90    |
| NR8040-5R1 □ | 5.10            | 100KHz         | 0.031            | 5.50    |
| NR8040-5R6 □ | 5.60            | 100KHz         | 0.032            | 5.40    |
| NR8040-6R8 □ | 6.80            | 100KHz         | 0.036            | 4.50    |
| NR8040-8R2 □ | 8.20            | 100KHz         | 0.046            | 4.20    |
| NR8040-100 □ | 10              | 100KHz         | 0.048            | 3.60    |
| NR8040-120 □ | 12              | 100KHz         | 0.065            | 3.40    |
| NR8040-150 □ | 15              | 100KHz         | 0.073            | 2.90    |
| NR8040-180 □ | 18              | 100KHz         | 0.092            | 2.70    |
| NR8040-220 □ | 22              | 100KHz         | 0.096            | 2.40    |
| NR8040-270 □ | 27              | 100KHz         | 0.101            | 2.15    |
| NR8040-330 □ | 33              | 100KHz         | 0.130            | 2.00    |
| NR8040-390 □ | 39              | 100KHz         | 0.163            | 1.95    |
| NR8040-430 □ | 43              | 100KHz         | 0.147            | 1.90    |
| NR8040-470 □ | 47              | 100KHz         | 0.177            | 1.70    |
| NR8040-510 □ | 51              | 100KHz         | 0.230            | 1.60    |
| NR8040-560 □ | 56              | 100KHz         | 0.240            | 1.55    |
| NR8040-620 □ | 62              | 100KHz         | 0.250            | 1.50    |
| NR8040-680 □ | 68              | 100KHz         | 0.255            | 1.40    |
| NR8040-720 □ | 72              | 100KHz         | 0.338            | 1.38    |
| NR8040-750 □ | 75              | 100KHz         | 0.340            | 1.35    |
| NR8040-800 □ | 80              | 100KHz         | 0.345            | 1.30    |



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR8040

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR8040-820 □ | 82              | 100KHz         | 0.350            | 1.25    |
| NR8040-910 □ | 91              | 100KHz         | 0.377            | 1.20    |
| NR8040-101 □ | 100             | 100KHz         | 0.384            | 1.15    |
| NR8040-121 □ | 120             | 100KHz         | 0.421            | 1.10    |
| NR8040-151 □ | 150             | 100KHz         | 0.611            | 1.05    |
| NR8040-181 □ | 180             | 100KHz         | 0.806            | 0.95    |
| NR8040-201 □ | 200             | 100KHz         | 0.820            | 0.92    |
| NR8040-221 □ | 220             | 100KHz         | 0.858            | 0.85    |
| NR8040-271 □ | 270             | 100KHz         | 1.027            | 0.74    |
| NR8040-331 □ | 330             | 100KHz         | 1.261            | 0.68    |
| NR8040-391 □ | 390             | 100KHz         | 1.560            | 0.65    |
| NR8040-471 □ | 470             | 100KHz         | 1.625            | 0.60    |
| NR8040-561 □ | 560             | 100KHz         | 2.210            | 0.55    |
| NR8040-681 □ | 680             | 100KHz         | 2.670            | 0.52    |
| NR8040-751 □ | 750             | 100KHz         | 3.250            | 0.50    |
| NR8040-821 □ | 820             | 100KHz         | 3.640            | 0.45    |
| NR8040-102 □ | 1000            | 100KHz         | 3.800            | 0.40    |
| NR8040-122 □ | 1200            | 100KHz         | 4.680            | 0.37    |
| NR8040-132 □ | 1300            | 100KHz         | 5.330            | 0.36    |
| NR8040-152 □ | 1500            | 100KHz         | 6.540            | 0.35    |
| NR8040-202 □ | 2000            | 100KHz         | 8.710            | 0.30    |
| NR8040-222 □ | 2200            | 100KHz         | 9.960            | 0.27    |
| NR8040-272 □ | 2700            | 100KHz         | 11.96            | 0.25    |
| NR8040-402 □ | 4000            | 100KHz         | 19.20            | 0.22    |
| NR8040-472 □ | 4700            | 100KHz         | 20.80            | 0.21    |
| NR8040-502 □ | 5000            | 100KHz         | 22.40            | 0.15    |
| NR8040-103 □ | 10000           | 100KHz         | 54.60            | 0.12    |

### ELECTRICAL CHARACTERISTICS FOR NR8050

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR8050-2R2 □ | 2.2             | 100KHz         | 0.021            | 8.0     |
| NR8050-100 □ | 10              | 100KHz         | 0.060            | 5.5     |
| NR8050-220 □ | 22              | 100KHz         | 0.130            | 3.5     |
| NR8050-330 □ | 33              | 100KHz         | 0.182            | 3.0     |
| NR8050-101 □ | 100             | 100KHz         | 0.481            | 1.5     |
| NR8050-151 □ | 150             | 100KHz         | 0.650            | 1.3     |
| NR8050-221 □ | 220             | 100KHz         | 1.150            | 1.1     |
| NR8050-331 □ | 330             | 100KHz         | 1.690            | 1.0     |
| NR8050-471 □ | 470             | 100KHz         | 2.240            | 0.7     |
| NR8050-102 □ | 1000            | 100KHz         | 4.940            | 0.5     |



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR8065

| Part No.     | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|----------------|------------------|---------|
| NR8065-R68 □ | 0.68            | 100KHz         | 0.012            | 20      |
| NR8065-1R0 □ | 1.00            | 100KHz         | 0.015            | 10      |
| NR8065-2R2 □ | 2.20            | 100KHz         | 0.018            | 9.80    |
| NR8065-3R3 □ | 3.30            | 100KHz         | 0.022            | 9.50    |
| NR8065-4R7 □ | 4.70            | 100KHz         | 0.025            | 9.00    |
| NR8065-5R6 □ | 5.60            | 100KHz         | 0.027            | 8.30    |
| NR8065-6R8 □ | 6.80            | 100KHz         | 0.029            | 7.50    |
| NR8065-7R8 □ | 7.80            | 100KHz         | 0.033            | 7.00    |
| NR8065-8R2 □ | 8.20            | 100KHz         | 0.039            | 6.50    |
| NR8065-100 □ | 10              | 100KHz         | 0.047            | 6.00    |
| NR8065-150 □ | 15              | 100KHz         | 0.064            | 5.00    |
| NR8065-220 □ | 22              | 100KHz         | 0.082            | 4.00    |
| NR8065-330 □ | 33              | 100KHz         | 0.110            | 3.40    |
| NR8065-470 □ | 47              | 100KHz         | 0.163            | 2.80    |
| NR8065-560 □ | 56              | 100KHz         | 0.195            | 2.60    |
| NR8065-680 □ | 68              | 100KHz         | 0.234            | 2.25    |
| NR8065-820 □ | 82              | 100KHz         | 0.260            | 2.10    |
| NR8065-101 □ | 100             | 100KHz         | 0.338            | 1.90    |
| NR8065-151 □ | 150             | 100KHz         | 0.533            | 1.50    |
| NR8065-221 □ | 220             | 100KHz         | 0.715            | 1.25    |
| NR8065-241 □ | 240             | 100KHz         | 0.741            | 1.20    |
| NR8065-331 □ | 330             | 100KHz         | 1.080            | 1.10    |
| NR8065-471 □ | 470             | 100KHz         | 1.560            | 0.87    |
| NR8065-681 □ | 680             | 100KHz         | 2.210            | 0.75    |
| NR8065-102 □ | 1000            | 100KHz         | 3.250            | 0.62    |
| NR8065-152 □ | 1500            | 100KHz         | 4.680            | 0.50    |
| NR8065-202 □ | 2000            | 100KHz         | 6.370            | 0.40    |
| NR8065-222 □ | 2200            | 100KHz         | 6.630            | 0.38    |
| NR8065-302 □ | 3000            | 100KHz         | 10.40            | 0.35    |
| NR8065-332 □ | 3300            | 100KHz         | 11.05            | 0.30    |



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR10050

| Part No.      | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|----------------|------------------|---------|
| NR10050-1R0 □ | 1.0             | 100KHz         | 0.018            | 14.20   |
| NR10050-1R5 □ | 1.5             | 100KHz         | 0.020            | 12.80   |
| NR10050-2R2 □ | 2.2             | 100KHz         | 0.025            | 12.10   |
| NR10050-3R3 □ | 3.3             | 100KHz         | 0.027            | 11.20   |
| NR10050-4R7 □ | 4.7             | 100KHz         | 0.030            | 10.30   |
| NR10050-6R8 □ | 6.8             | 100KHz         | 0.037            | 9.00    |
| NR10050-8R2 □ | 8.2             | 100KHz         | 0.040            | 8.50    |
| NR10050-100 □ | 10              | 100KHz         | 0.048            | 7.20    |
| NR10050-150 □ | 15              | 100KHz         | 0.059            | 6.00    |
| NR10050-220 □ | 22              | 100KHz         | 0.085            | 4.30    |
| NR10050-330 □ | 33              | 100KHz         | 0.104            | 4.00    |
| NR10050-470 □ | 47              | 100KHz         | 0.163            | 3.30    |
| NR10050-560 □ | 56              | 100KHz         | 0.201            | 3.10    |
| NR10050-680 □ | 68              | 100KHz         | 0.235            | 3.00    |
| NR10050-101 □ | 100             | 100KHz         | 0.338            | 2.50    |
| NR10050-151 □ | 150             | 100KHz         | 0.438            | 2.00    |
| NR10050-221 □ | 220             | 100KHz         | 0.675            | 1.80    |
| NR10050-271 □ | 270             | 100KHz         | 0.858            | 1.50    |
| NR10050-301 □ | 300             | 100KHz         | 0.975            | 1.45    |
| NR10050-331 □ | 330             | 100KHz         | 1.100            | 1.40    |
| NR10050-391 □ | 390             | 100KHz         | 1.300            | 1.25    |
| NR10050-471 □ | 470             | 100KHz         | 1.430            | 1.20    |
| NR10050-561 □ | 560             | 100KHz         | 1.750            | 1.10    |
| NR10050-681 □ | 680             | 100KHz         | 1.980            | 1.00    |
| NR10050-821 □ | 820             | 100KHz         | 2.730            | 0.90    |
| NR10050-102 □ | 1000            | 100KHz         | 3.420            | 0.80    |
| NR10050-152 □ | 1500            | 100KHz         | 4.950            | 0.65    |
| NR10050-202 □ | 2000            | 100KHz         | 6.500            | 0.55    |
| NR10050-302 □ | 3000            | 100KHz         | 9.100            | 0.50    |
| NR10050-402 □ | 4000            | 100KHz         | 12.35            | 0.40    |
| NR10050-153 □ | 15000           | 100KHz         | 48.10            | 0.23    |
| NR10050-203 □ | 20000           | 100KHz         | 78               | 0.18    |
| NR10050-333 □ | 33000           | 100KHz         | 89               | 0.17    |



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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR10060

| Part No.      | Inductance (uH) | Test Frequency | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|----------------|------------------|---------|
| NR10060-100 □ | 10              | 100KHz         | 0.042            | 8.00    |
| NR10060-101 □ | 100             | 100KHz         | 0.273            | 2.80    |
| NR10060-151 □ | 150             | 100KHz         | 0.364            | 2.30    |
| NR10060-221 □ | 220             | 100KHz         | 0.494            | 1.90    |
| NR10060-391 □ | 390             | 100KHz         | 0.988            | 1.50    |
| NR10060-102 □ | 1000            | 100KHz         | 3.120            | 0.85    |
| NR10060-903 □ | 90000           | 100KHz         | 208              | 0.08    |



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# SHIELDED SMD POWER INDUCTORS / SCI TYPE

## FEATURES

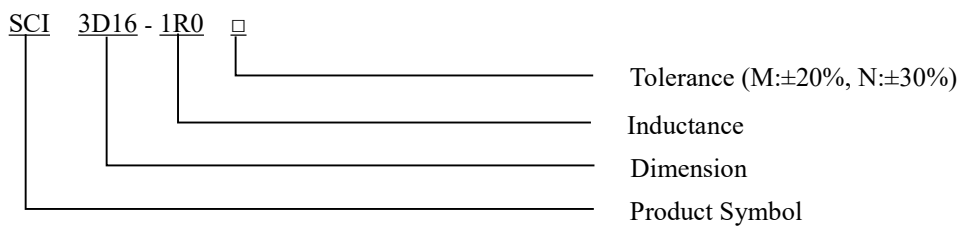
- ◆ Low DC resistance
- ◆ Suitable for large currents
- ◆ Available in magnetically shielded
- ◆ Small size with the electrode attached to it



## APPLICATIONS

- ◆ Communication terminals.
- ◆ DC/DC converters, etc.
- ◆ Various categories of consumer electronics.

## ORDERING CODE



## SHAPES

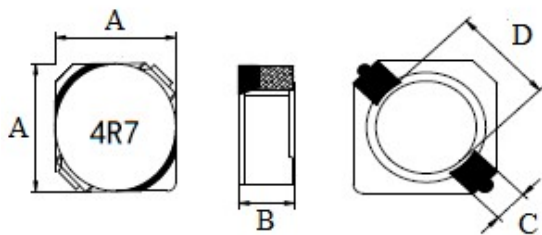


Fig 1.

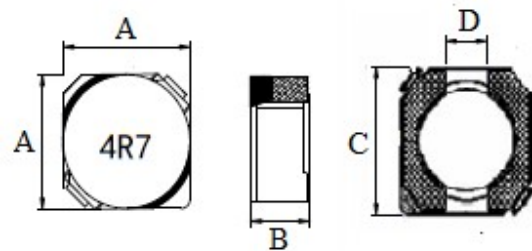


Fig 2.

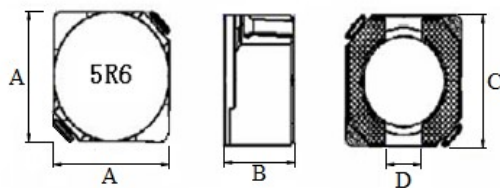


Fig 3.

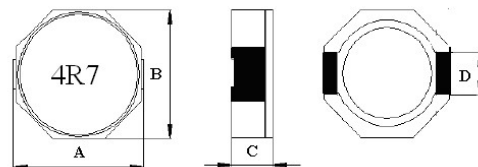


Fig 4.



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## SHIELDED SMD POWER INDUCTORS / SCI TYPE

### DIMENSIONS (UNIT: mm)

| Part No. | Fig. | A (Max) | B (Max) | C (Ref.)   | D (Ref.) |
|----------|------|---------|---------|------------|----------|
| SCI 2D09 | 1    | 3.2     | 1.1     | 1.00       | 2.1      |
| SCI 2D11 | 1    | 3.2     | 1.3     | 1.00       | 2.1      |
| SCI 2D14 | 1    | 3.2     | 1.6     | 1.00       | 2.1      |
| SCI 2D18 | 1    | 3.2     | 2.0     | 1.00       | 2.1      |
| SCI 3D11 | 2    | 4.0     | 1.3     | 3.75       | 1.2      |
| SCI 3D14 | 2    | 4.0     | 1.8     | 3.75       | 1.2      |
| SCI 3D16 | 2    | 4.0     | 1.9     | 3.75       | 1.2      |
| SCI 3D23 | 2    | 4.0     | 2.5     | 3.75       | 1.2      |
| SCI 3D28 | 2    | 4.0     | 3.0     | 3.75       | 1.2      |
| SCI 4D18 | 3    | 5.0     | 2.0     | 4.50       | 1.6      |
| SCI 4D28 | 3    | 5.0     | 3.0     | 4.50       | 1.6      |
| SCI 5D18 | 3    | 6.0     | 2.0     | 5.60       | 2.0      |
| SCI 5D28 | 3    | 6.0     | 3.0     | 5.60       | 2.0      |
| SCI 6D28 | 3    | 7.0     | 3.0     | 6.50       | 2.0      |
| SCI 6D38 | 3    | 7.0     | 4.0     | 6.50       | 2.0      |
| SCI 8D28 | 4    | 9.5     | 8.4     | 3.20 (Max) | 2.5      |
| SCI 8D43 | 4    | 9.5     | 8.4     | 5.00 (Max) | 2.5      |

### ELECTRICAL CHARACTERISTICS FOR SCI2D09

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI2D09-3R0 □ | 3.0             | 0.165            | 0.45    |
| SCI2D09-4R7 □ | 4.7             | 0.270            | 0.40    |
| SCI2D09-100 □ | 10              | 0.620            | 0.30    |
| SCI2D09-220 □ | 22              | 1.289            | 0.17    |

### ELECTRICAL CHARACTERISTICS FOR SCI2D11

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI2D11-1R0 □ | 1.0             | 0.085            | 1.20    |
| SCI2D11-1R5 □ | 1.5             | 0.090            | 1.00    |
| SCI2D11-2R2 □ | 2.2             | 0.125            | 0.78    |
| SCI2D11-3R3 □ | 3.3             | 0.160            | 0.45    |
| SCI2D11-4R7 □ | 4.7             | 0.170            | 0.40    |
| SCI2D11-6R8 □ | 6.8             | 0.350            | 0.38    |
| SCI2D11-8R2 □ | 8.2             | 0.400            | 0.35    |
| SCI2D11-100 □ | 10              | 0.580            | 0.30    |
| SCI2D11-150 □ | 15              | 0.730            | 0.24    |
| SCI2D11-220 □ | 22              | 0.950            | 0.18    |



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## SHIELDED SMD POWER INDUCTORS / SCI TYPE

### ELECTRICAL CHARACTERISTICS FOR SCI2D14

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI2D14-1R0 □ | 1.0             | 0.080            | 1.30    |
| SCI2D14-1R5 □ | 1.5             | 0.085            | 1.25    |
| SCI2D14-2R2 □ | 2.2             | 0.094            | 0.80    |
| SCI2D14-3R3 □ | 3.3             | 0.145            | 0.70    |
| SCI2D14-4R7 □ | 4.7             | 0.169            | 0.65    |
| SCI2D14-5R6 □ | 5.6             | 0.250            | 0.60    |
| SCI2D14-6R8 □ | 6.8             | 0.260            | 0.55    |
| SCI2D14-100 □ | 10              | 0.550            | 0.40    |
| SCI2D14-220 □ | 22              | 0.900            | 0.25    |
| SCI2D14-470 □ | 47              | 2.300            | 0.18    |

### ELECTRICAL CHARACTERISTICS FOR SCI2D18

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI2D18-1R0 □ | 1.0             | 0.070            | 1.40    |
| SCI2D18-1R5 □ | 1.5             | 0.080            | 1.30    |
| SCI2D18-2R2 □ | 2.2             | 0.090            | 0.90    |
| SCI2D18-3R3 □ | 3.3             | 0.094            | 0.80    |
| SCI2D18-4R7 □ | 4.7             | 0.100            | 0.68    |
| SCI2D18-6R8 □ | 6.8             | 0.150            | 0.57    |
| SCI2D18-100 □ | 10              | 0.180            | 0.46    |
| SCI2D18-150 □ | 15              | 0.250            | 0.35    |
| SCI2D18-220 □ | 22              | 0.300            | 0.28    |
| SCI2D18-330 □ | 33              | 0.600            | 0.23    |
| SCI2D18-101 □ | 100             | 1.860            | 0.15    |

### ELECTRICAL CHARACTERISTICS FOR SCI3D11

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI3D11-2R2 □ | 2.2             | 0.125            | 0.90    |
| SCI3D11-3R3 □ | 3.3             | 0.150            | 0.60    |
| SCI3D11-4R7 □ | 4.7             | 0.170            | 0.50    |
| SCI3D11-6R8 □ | 6.8             | 0.200            | 0.40    |
| SCI3D11-100 □ | 10              | 0.350            | 0.30    |
| SCI3D11-220 □ | 22              | 0.920            | 0.20    |
| SCI3D11-101 □ | 100             | 3.200            | 0.15    |

### ELECTRICAL CHARACTERISTICS FOR SCI3D14

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI3D14-4R7 □ | 4.7             | 0.158            | 0.70    |
| SCI3D14-100 □ | 10              | 0.268            | 0.48    |



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## SHIELDED SMD POWER INDUCTORS / SCI TYPE

### ELECTRICAL CHARACTERISTICS FOR SCI3D16

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI3D16-1R2 □ | 1.2             | 0.050            | 1.80    |
| SCI3D16-2R2 □ | 2.2             | 0.060            | 1.00    |
| SCI3D16-3R3 □ | 3.3             | 0.080            | 0.92    |
| SCI3D16-4R7 □ | 4.7             | 0.091            | 0.80    |
| SCI3D16-6R8 □ | 6.8             | 0.145            | 0.58    |
| SCI3D16-100 □ | 10              | 0.170            | 0.48    |
| SCI3D16-150 □ | 15              | 0.230            | 0.40    |
| SCI3D16-220 □ | 22              | 0.290            | 0.31    |
| SCI3D16-270 □ | 27              | 0.410            | 0.29    |
| SCI3D16-330 □ | 33              | 0.550            | 0.25    |
| SCI3D16-470 □ | 47              | 0.775            | 0.22    |
| SCI3D16-680 □ | 68              | 1.100            | 0.18    |
| SCI3D16-101 □ | 100             | 1.400            | 0.17    |
| SCI3D16-102 □ | 1000            | 20.400           | 0.06    |

### ELECTRICAL CHARACTERISTICS FOR SCI3D23

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI3D23-1R0 □ | 1.0             | 0.025            | 2.80    |
| SCI3D23-1R5 □ | 1.5             | 0.029            | 2.20    |
| SCI3D23-2R2 □ | 2.2             | 0.038            | 1.80    |
| SCI3D23-3R3 □ | 3.3             | 0.056            | 1.60    |
| SCI3D23-4R7 □ | 4.7             | 0.069            | 1.30    |
| SCI3D23-5R6 □ | 5.6             | 0.075            | 1.10    |
| SCI3D23-6R8 □ | 6.8             | 0.088            | 1.00    |
| SCI3D23-8R2 □ | 8.2             | 0.095            | 0.95    |
| SCI3D23-100 □ | 10              | 0.117            | 0.85    |
| SCI3D23-120 □ | 12              | 0.180            | 0.80    |
| SCI3D23-150 □ | 15              | 0.191            | 0.70    |
| SCI3D23-180 □ | 18              | 0.230            | 0.58    |
| SCI3D23-220 □ | 22              | 0.270            | 0.55    |
| SCI3D23-330 □ | 33              | 0.381            | 0.50    |
| SCI3D23-470 □ | 47              | 0.546            | 0.35    |
| SCI3D23-560 □ | 56              | 0.900            | 0.34    |
| SCI3D23-680 □ | 68              | 1.000            | 0.33    |
| SCI3D23-820 □ | 82              | 1.400            | 0.32    |
| SCI3D23-101 □ | 100             | 1.600            | 0.30    |
| SCI3D23-121 □ | 120             | 1.800            | 0.28    |
| SCI3D23-151 □ | 150             | 1.900            | 0.25    |
| SCI3D23-181 □ | 180             | 2.100            | 0.22    |
| SCI3D23-221 □ | 220             | 3.000            | 0.15    |



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## SHIELDED SMD POWER INDUCTORS / SCI TYPE

### ELECTRICAL CHARACTERISTICS FOR SCI3D28

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI3D28-1R0 □ | 1.0             | 0.040            | 2.00    |
| SCI3D28-2R2 □ | 2.2             | 0.045            | 1.00    |
| SCI3D28-3R3 □ | 3.3             | 0.050            | 0.97    |
| SCI3D28-3R9 □ | 3.9             | 0.058            | 0.95    |
| SCI3D28-4R7 □ | 4.7             | 0.060            | 0.90    |
| SCI3D28-5R6 □ | 5.6             | 0.065            | 0.80    |
| SCI3D28-8R2 □ | 8.2             | 0.070            | 0.70    |
| SCI3D28-100 □ | 10              | 0.080            | 0.53    |
| SCI3D28-120 □ | 12              | 0.090            | 0.50    |
| SCI3D28-150 □ | 15              | 0.095            | 0.46    |
| SCI3D28-220 □ | 22              | 0.144            | 0.40    |
| SCI3D28-330 □ | 33              | 0.450            | 0.30    |
| SCI3D28-390 □ | 39              | 0.500            | 0.25    |
| SCI3D28-470 □ | 47              | 0.550            | 0.23    |
| SCI3D28-560 □ | 56              | 0.600            | 0.20    |
| SCI3D28-680 □ | 68              | 0.650            | 0.19    |
| SCI3D28-101 □ | 100             | 0.720            | 0.17    |
| SCI3D28-151 □ | 150             | 0.880            | 0.16    |
| SCI3D28-181 □ | 180             | 1.130            | 0.15    |
| SCI3D28-221 □ | 220             | 1.260            | 0.13    |



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## SHIELDED SMD POWER INDUCTORS / SCI TYPE

### ELECTRICAL CHARACTERISTICS FOR SCI4D18

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI4D18-1R0 □ | 1.0             | 0.035            | 2.70    |
| SCI4D18-1R5 □ | 1.5             | 0.045            | 2.50    |
| SCI4D18-2R2 □ | 2.2             | 0.060            | 2.20    |
| SCI4D18-3R3 □ | 3.3             | 0.070            | 1.60    |
| SCI4D18-3R9 □ | 3.9             | 0.072            | 1.50    |
| SCI4D18-4R7 □ | 4.7             | 0.100            | 1.20    |
| SCI4D18-6R8 □ | 6.8             | 0.150            | 1.00    |
| SCI4D18-8R2 □ | 8.2             | 0.180            | 0.90    |
| SCI4D18-100 □ | 10              | 0.200            | 0.85    |
| SCI4D18-150 □ | 15              | 0.240            | 0.80    |
| SCI4D18-180 □ | 18              | 0.280            | 0.60    |
| SCI4D18-220 □ | 22              | 0.300            | 0.55    |
| SCI4D18-330 □ | 33              | 0.550            | 0.50    |
| SCI4D18-470 □ | 47              | 0.630            | 0.43    |
| SCI4D18-101 □ | 100             | 2.000            | 0.20    |
| SCI4D18-181 □ | 180             | 2.600            | 0.19    |
| SCI4D18-221 □ | 220             | 2.800            | 0.15    |
| SCI4D18-471 □ | 470             | 5.000            | 0.13    |
| SCI4D18-681 □ | 680             | 10.080           | 0.12    |



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## SHIELDED SMD POWER INDUCTORS / SCI TYPE

### ELECTRICAL CHARACTERISTICS FOR SCI4D28

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI4D28-1R0 □ | 1.0             | 0.028            | 5.00    |
| SCI4D28-1R5 □ | 1.5             | 0.030            | 3.70    |
| SCI4D28-2R2 □ | 2.2             | 0.031            | 3.00    |
| SCI4D28-3R3 □ | 3.3             | 0.049            | 2.30    |
| SCI4D28-3R9 □ | 3.9             | 0.058            | 2.20    |
| SCI4D28-4R7 □ | 4.7             | 0.072            | 2.10    |
| SCI4D28-6R8 □ | 6.8             | 0.090            | 1.70    |
| SCI4D28-8R2 □ | 8.2             | 0.120            | 1.50    |
| SCI4D28-100 □ | 10              | 0.128            | 1.40    |
| SCI4D28-120 □ | 12              | 0.132            | 1.23    |
| SCI4D28-150 □ | 15              | 0.149            | 1.10    |
| SCI4D28-180 □ | 18              | 0.250            | 1.00    |
| SCI4D28-220 □ | 22              | 0.270            | 0.95    |
| SCI4D28-330 □ | 33              | 0.300            | 0.80    |
| SCI4D28-390 □ | 39              | 0.400            | 0.70    |
| SCI4D28-470 □ | 47              | 0.478            | 0.63    |
| SCI4D28-101 □ | 100             | 1.000            | 0.43    |
| SCI4D28-151 □ | 150             | 1.500            | 0.35    |
| SCI4D28-181 □ | 180             | 1.700            | 0.33    |
| SCI4D28-221 □ | 220             | 2.000            | 0.30    |
| SCI4D28-331 □ | 330             | 4.000            | 0.28    |

### ELECTRICAL CHARACTERISTICS FOR SCI5D18

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI5D18-1R2 □ | 1.2             | 0.032            | 4.00    |
| SCI5D18-2R2 □ | 2.2             | 0.045            | 2.50    |
| SCI5D18-3R3 □ | 3.3             | 0.060            | 2.00    |
| SCI5D18-4R7 □ | 4.7             | 0.072            | 1.60    |
| SCI5D18-6R8 □ | 6.8             | 0.105            | 1.35    |
| SCI5D18-100 □ | 10              | 0.124            | 1.20    |
| SCI5D18-150 □ | 15              | 0.160            | 0.85    |
| SCI5D18-180 □ | 18              | 0.200            | 0.80    |
| SCI5D18-220 □ | 22              | 0.280            | 0.60    |
| SCI5D18-330 □ | 33              | 0.400            | 0.55    |
| SCI5D18-470 □ | 47              | 0.500            | 0.50    |
| SCI5D18-680 □ | 68              | 0.800            | 0.40    |
| SCI5D18-101 □ | 100             | 0.950            | 0.30    |
| SCI5D18-121 □ | 120             | 1.100            | 0.25    |
| SCI5D18-181 □ | 180             | 1.950            | 0.23    |
| SCI5D18-391 □ | 390             | 4.100            | 0.20    |



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## SHIELDED SMD POWER INDUCTORS / SCI TYPE

### ELECTRICAL CHARACTERISTICS FOR SCI5D28

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI5D28-1R0 □ | 1.0             | 0.020            | 4.00    |
| SCI5D28-1R5 □ | 1.5             | 0.030            | 3.00    |
| SCI5D28-2R2 □ | 2.2             | 0.035            | 2.60    |
| SCI5D28-2R7 □ | 2.7             | 0.037            | 2.20    |
| SCI5D28-3R3 □ | 3.3             | 0.039            | 2.10    |
| SCI5D28-3R9 □ | 3.9             | 0.040            | 2.00    |
| SCI5D28-4R7 □ | 4.7             | 0.045            | 1.80    |
| SCI5D28-5R6 □ | 5.6             | 0.050            | 1.60    |
| SCI5D28-6R8 □ | 6.8             | 0.053            | 1.50    |
| SCI5D28-8R2 □ | 8.2             | 0.055            | 1.35    |
| SCI5D28-100 □ | 10              | 0.065            | 1.30    |
| SCI5D28-120 □ | 12              | 0.075            | 1.20    |
| SCI5D28-150 □ | 15              | 0.090            | 1.10    |
| SCI5D28-180 □ | 18              | 0.100            | 0.85    |
| SCI5D28-220 □ | 22              | 0.122            | 0.75    |
| SCI5D28-330 □ | 33              | 0.180            | 0.70    |
| SCI5D28-390 □ | 39              | 0.200            | 0.60    |
| SCI5D28-470 □ | 47              | 0.260            | 0.55    |
| SCI5D28-560 □ | 56              | 0.305            | 0.50    |
| SCI5D28-680 □ | 68              | 0.355            | 0.42    |
| SCI5D28-101 □ | 100             | 0.520            | 0.37    |
| SCI5D28-121 □ | 120             | 0.550            | 0.33    |
| SCI5D28-151 □ | 150             | 0.800            | 0.30    |
| SCI5D28-181 □ | 180             | 1.000            | 0.28    |
| SCI5D28-221 □ | 220             | 1.100            | 0.23    |



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## SHIELDED SMD POWER INDUCTORS / SCI TYPE

### ELECTRICAL CHARACTERISTICS FOR SCI6D28

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI6D28-1R2 □ | 1.2             | 0.025            | 4.50    |
| SCI6D28-1R5 □ | 1.5             | 0.027            | 4.30    |
| SCI6D28-2R2 □ | 2.2             | 0.030            | 3.50    |
| SCI6D28-3R3 □ | 3.3             | 0.032            | 3.20    |
| SCI6D28-3R9 □ | 3.9             | 0.035            | 3.00    |
| SCI6D28-4R7 □ | 4.7             | 0.036            | 2.80    |
| SCI6D28-5R6 □ | 5.6             | 0.040            | 2.40    |
| SCI6D28-6R8 □ | 6.8             | 0.045            | 2.10    |
| SCI6D28-100 □ | 10              | 0.065            | 1.70    |
| SCI6D28-150 □ | 15              | 0.084            | 1.20    |
| SCI6D28-220 □ | 22              | 0.110            | 1.00    |
| SCI6D28-330 □ | 33              | 0.165            | 0.80    |
| SCI6D28-470 □ | 47              | 0.238            | 0.65    |
| SCI6D28-560 □ | 56              | 0.277            | 0.60    |
| SCI6D28-680 □ | 68              | 0.304            | 0.55    |
| SCI6D28-101 □ | 100             | 0.505            | 0.50    |
| SCI6D28-151 □ | 150             | 0.550            | 0.36    |
| SCI6D28-221 □ | 220             | 1.000            | 0.30    |



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## SHIELDED SMD POWER INDUCTORS / SCI TYPE

### ELECTRICAL CHARACTERISTICS FOR SCI6D38

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI6D38-1R0 □ | 1.0             | 0.024            | 5.00    |
| SCI6D38-2R2 □ | 2.2             | 0.028            | 3.60    |
| SCI6D38-2R7 □ | 2.7             | 0.030            | 3.40    |
| SCI6D38-3R3 □ | 3.3             | 0.031            | 3.30    |
| SCI6D38-4R7 □ | 4.7             | 0.035            | 3.20    |
| SCI6D38-5R6 □ | 5.6             | 0.037            | 2.80    |
| SCI6D38-6R8 □ | 6.8             | 0.044            | 2.40    |
| SCI6D38-8R2 □ | 8.2             | 0.058            | 2.20    |
| SCI6D38-100 □ | 10              | 0.063            | 2.00    |
| SCI6D38-150 □ | 15              | 0.080            | 1.60    |
| SCI6D38-220 □ | 22              | 0.096            | 1.30    |
| SCI6D38-330 □ | 33              | 0.130            | 1.10    |
| SCI6D38-390 □ | 39              | 0.138            | 1.00    |
| SCI6D38-470 □ | 47              | 0.155            | 0.90    |
| SCI6D38-560 □ | 56              | 0.190            | 0.82    |
| SCI6D38-680 □ | 68              | 0.234            | 0.75    |
| SCI6D38-101 □ | 100             | 0.368            | 0.63    |
| SCI6D38-151 □ | 150             | 0.450            | 0.43    |
| SCI6D38-221 □ | 220             | 0.800            | 0.35    |
| SCI6D38-331 □ | 330             | 1.000            | 0.34    |
| SCI6D38-471 □ | 470             | 1.300            | 0.27    |

### ELECTRICAL CHARACTERISTICS FOR SCI8D28

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI8D28-1R0 □ | 1.0             | 0.021            | 5.50    |
| SCI8D28-4R7 □ | 4.7             | 0.040            | 3.90    |
| SCI8D28-5R6 □ | 5.6             | 0.045            | 3.50    |
| SCI8D28-6R8 □ | 6.8             | 0.050            | 3.40    |
| SCI8D28-100 □ | 10              | 0.070            | 3.00    |
| SCI8D28-220 □ | 22              | 0.099            | 1.10    |
| SCI8D28-101 □ | 100             | 0.500            | 0.65    |



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## SHIELDED SMD POWER INDUCTORS / SCI TYPE

### ELECTRICAL CHARACTERISTICS FOR SCI8D43

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SCI8D43-1R0 □ | 1.0             | 0.016            | 6.00    |
| SCI8D43-4R7 □ | 4.7             | 0.019            | 5.37    |
| SCI8D43-6R8 □ | 6.8             | 0.040            | 4.50    |
| SCI8D43-100 □ | 10              | 0.061            | 4.00    |
| SCI8D43-150 □ | 15              | 0.075            | 2.00    |
| SCI8D43-220 □ | 22              | 0.100            | 1.50    |
| SCI8D43-330 □ | 33              | 0.200            | 1.30    |
| SCI8D43-470 □ | 47              | 0.250            | 1.20    |
| SCI8D43-680 □ | 68              | 0.260            | 1.10    |

\*100uH 以上 Test Frequency : 1KHZ/1V

\*100uH 以下 Test Frequency : 100KHZ/0.1V



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## SHIELDED SMD POWER INDUCTORS / SDI TYPE

### FEATURES

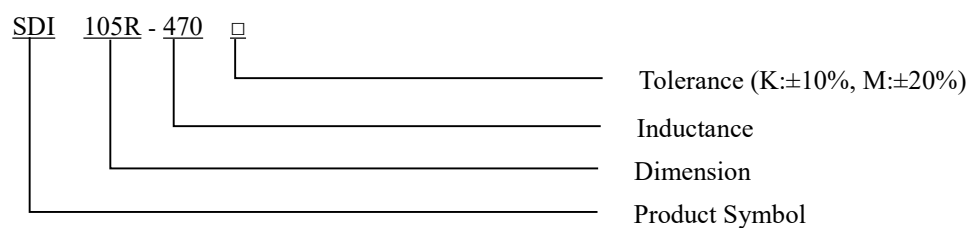
- ◆ Ideal inductors for DC-DC conversion
- ◆ With magnetic shield against radiation
- ◆ High power and high saturation inductors
- ◆ Directly connected electrode on ferrite core



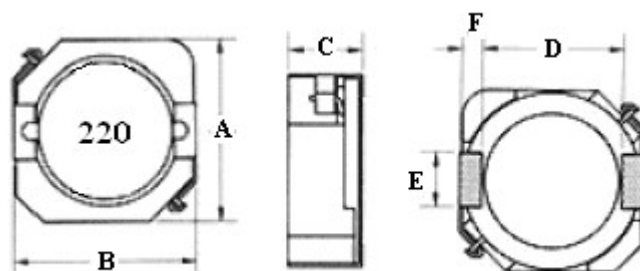
### APPLICATIONS

- ◆ DC/DC converters, etc.
- ◆ Various categories of consumer electronics.

### ORDERING CODE



### SHAPES



### DIMENSIONS (UNIT: mm)

| Part No. | A(Max) | B(Max) | C(Max) | D(Ref.) | E(Ref.) | F(Ref.) |
|----------|--------|--------|--------|---------|---------|---------|
| SDI 103R | 10.3   | 10.5   | 3      | 7.7     | 3       | 1.2     |
| SDI 104R | 10.3   | 10.5   | 4      | 7.7     | 3       | 1.2     |
| SDI 105R | 10.3   | 10.5   | 5      | 7.7     | 3       | 1.2     |



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## SHIELDED SMD POWER INDUCTORS / SDI TYPE

### ELECTRICAL CHARACTERISTICS FOR SDI103R

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SDI103R-1R5 □ | 1.5             | 0.020            | 5.00    |
| SDI103R-3R3 □ | 3.3             | 0.027            | 4.20    |
| SDI103R-4R7 □ | 4.7             | 0.028            | 3.50    |
| SDI103R-8R2 □ | 8.2             | 0.045            | 3.30    |
| SDI103R-100 □ | 10              | 0.050            | 2.40    |
| SDI103R-150 □ | 15              | 0.080            | 2.30    |
| SDI103R-220 □ | 22              | 0.100            | 2.16    |
| SDI103R-330 □ | 33              | 0.135            | 1.74    |
| SDI103R-470 □ | 47              | 0.230            | 1.40    |
| SDI103R-560 □ | 56              | 0.240            | 1.20    |
| SDI103R-680 □ | 68              | 0.278            | 1.10    |
| SDI103R-101 □ | 100             | 0.360            | 0.80    |
| SDI103R-221 □ | 220             | 1.000            | 0.65    |

### ELECTRICAL CHARACTERISTICS FOR SDI104R

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SDI104R-1R0 □ | 1.0             | 0.018            | 8.00    |
| SDI104R-2R2 □ | 2.2             | 0.020            | 6.80    |
| SDI104R-3R3 □ | 3.3             | 0.022            | 6.20    |
| SDI104R-4R7 □ | 4.7             | 0.024            | 5.00    |
| SDI104R-5R6 □ | 5.6             | 0.025            | 4.80    |
| SDI104R-6R8 □ | 6.8             | 0.027            | 4.50    |
| SDI104R-8R2 □ | 8.2             | 0.033            | 4.00    |
| SDI104R-100 □ | 10              | 0.040            | 3.50    |
| SDI104R-150 □ | 15              | 0.050            | 3.00    |
| SDI104R-180 □ | 18              | 0.055            | 2.95    |
| SDI104R-220 □ | 22              | 0.073            | 2.90    |
| SDI104R-270 □ | 27              | 0.090            | 2.50    |
| SDI104R-330 □ | 33              | 0.093            | 2.00    |
| SDI104R-470 □ | 47              | 0.128            | 1.80    |
| SDI104R-680 □ | 68              | 0.213            | 1.30    |
| SDI104R-820 □ | 82              | 0.245            | 1.15    |
| SDI104R-101 □ | 100             | 0.304            | 1.00    |



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## SHIELDED SMD POWER INDUCTORS / SDI TYPE

### ELECTRICAL CHARACTERISTICS FOR SDI104R

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SDI104R-121 □ | 120             | 0.500            | 0.90    |
| SDI104R-151 □ | 150             | 0.560            | 0.88    |
| SDI104R-181 □ | 180             | 0.630            | 0.80    |
| SDI104R-221 □ | 220             | 0.756            | 0.70    |
| SDI104R-331 □ | 330             | 1.500            | 0.46    |

### ELECTRICAL CHARACTERISTICS FOR SDI105R

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SDI105R-2R2 □ | 2.2             | 0.009            | 8.50    |
| SDI105R-3R3 □ | 3.3             | 0.011            | 7.20    |
| SDI105R-4R7 □ | 4.7             | 0.019            | 5.00    |
| SDI105R-6R8 □ | 6.8             | 0.025            | 4.60    |
| SDI105R-8R2 □ | 8.2             | 0.030            | 4.00    |
| SDI105R-100 □ | 10              | 0.035            | 3.50    |
| SDI105R-150 □ | 15              | 0.041            | 3.00    |
| SDI105R-220 □ | 22              | 0.061            | 2.20    |
| SDI105R-330 □ | 33              | 0.090            | 2.00    |
| SDI105R-470 □ | 47              | 0.125            | 1.80    |
| SDI105R-560 □ | 56              | 0.130            | 1.40    |
| SDI105R-680 □ | 68              | 0.201            | 1.35    |
| SDI105R-101 □ | 100             | 0.210            | 1.05    |
| SDI105R-121 □ | 120             | 0.230            | 0.92    |
| SDI105R-151 □ | 150             | 0.270            | 0.90    |
| SDI105R-181 □ | 180             | 0.300            | 0.85    |
| SDI105R-221 □ | 220             | 0.400            | 0.70    |
| SDI105R-331 □ | 330             | 0.800            | 0.60    |
| SDI105R-471 □ | 470             | 1.280            | 0.50    |
| SDI105R-561 □ | 560             | 1.300            | 0.47    |
| SDI105R-681 □ | 680             | 1.350            | 0.39    |
| SDI105R-821 □ | 820             | 2.000            | 0.30    |
| SDI105R-102 □ | 1000            | 2.150            | 0.28    |

\* 100uH 以上 Test Frequency : 1KHZ/1V

\* 100uH 以下 Test Frequency : 100KHZ/0.1V



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## SHIELDED SMD POWER INDUCTORS / SDS TYPE

### FEATURES

- ◆ With magnetic shield against radiation
- ◆ SDS 1608 used ceramic base with gold-plating
- ◆ Other used LCP plastic base

### APPLICATIONS

- ◆ Industrial equipment.
- ◆ DC/DC converters, etc.
- ◆ Various categories of consumer electronics.



### ORDERING CODE

|     |      |   |     |   |                    |
|-----|------|---|-----|---|--------------------|
| SDS | 1608 | - | 100 | □ |                    |
|     |      |   |     |   | Tolerance (M:±20%) |
|     |      |   |     |   | Inductance         |
|     |      |   |     |   | Dimension          |
|     |      |   |     |   | Product Symbol     |

### SHAPES

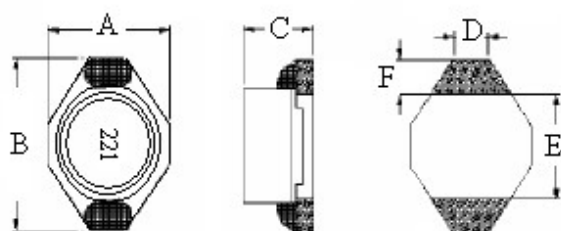


Fig.1

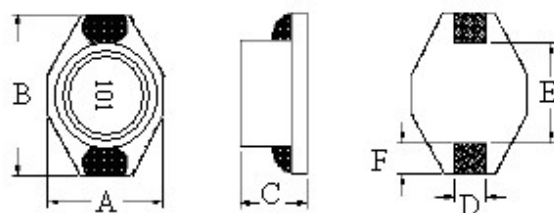


Fig.2

### DIMENSIONS (UNIT: mm)

| Part No. | Fig. | A(Max) | B(Max) | C(Max) | D(Ref) | E(Ref) | F(Ref) |
|----------|------|--------|--------|--------|--------|--------|--------|
| SDS 1608 | 1    | 4.45   | 6.50   | 2.92   | 1.27   | 4.32   | 1.02   |
| SDS 3316 | 2    | 9.40   | 12.95  | 5.21   | 2.54   | 7.62   | 2.54   |
| SDS 5022 | 2    | 15.24  | 18.54  | 7.11   | 2.54   | 12.7   | 2.54   |



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## SHIELDED SMD POWER INDUCTORS / SDS TYPE

### ELECTRICAL CHARACTERISTICS FOR SDS1608

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SDS1608-1R0 □ | 1.0             | 0.040            | 1.80    |
| SDS1608-1R5 □ | 1.5             | 0.045            | 1.70    |
| SDS1608-2R2 □ | 2.2             | 0.050            | 1.20    |
| SDS1608-3R3 □ | 3.3             | 0.055            | 0.90    |
| SDS1608-4R7 □ | 4.7             | 0.060            | 0.70    |
| SDS1608-6R8 □ | 6.8             | 0.070            | 0.60    |
| SDS1608-100 □ | 10              | 0.075            | 0.45    |
| SDS1608-150 □ | 15              | 0.090            | 0.40    |
| SDS1608-220 □ | 22              | 0.120            | 0.38    |
| SDS1608-270 □ | 27              | 0.170            | 0.30    |
| SDS1608-330 □ | 33              | 0.190            | 0.20    |
| SDS1608-470 □ | 47              | 0.230            | 0.18    |
| SDS1608-680 □ | 68              | 0.350            | 0.16    |
| SDS1608-101 □ | 100             | 0.430            | 0.15    |
| SDS1608-151 □ | 150             | 0.590            | 0.13    |
| SDS1608-221 □ | 220             | 1.200            | 0.11    |
| SDS1608-331 □ | 330             | 1.400            | 0.10    |
| SDS1608-391 □ | 390             | 2.000            | 0.09    |
| SDS1608-471 □ | 470             | 2.500            | 0.08    |

### ELECTRICAL CHARACTERISTICS FOR SDS3316

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SDS3316-1R0 □ | 1.0             | 0.021            | 16.00   |
| SDS3316-2R2 □ | 2.2             | 0.030            | 10.50   |
| SDS3316-100 □ | 10              | 0.145            | 5.00    |
| SDS3316-220 □ | 22              | 0.200            | 3.40    |
| SDS3316-330 □ | 33              | 0.400            | 2.60    |
| SDS3316-101 □ | 100             | 1.110            | 1.45    |
| SDS3316-151 □ | 150             | 1.550            | 1.25    |
| SDS3316-221 □ | 220             | 2.000            | 1.00    |
| SDS3316-681 □ | 680             | 5.010            | 0.23    |



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## SHIELDED SMD POWER INDUCTORS / SDS TYPE

### ELECTRICAL CHARACTERISTICS FOR SDS5022

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SDS5022-4R7 □ | 4.7             | 0.025            | 12.00   |
| SDS5022-8R2 □ | 8.2             | 0.035            | 9.60    |
| SDS5022-100 □ | 10              | 0.040            | 8.30    |
| SDS5022-150 □ | 15              | 0.048            | 7.50    |
| SDS5022-220 □ | 22              | 0.070            | 5.80    |
| SDS5022-330 □ | 33              | 0.085            | 5.00    |
| SDS5022-470 □ | 47              | 0.100            | 4.00    |
| SDS5022-680 □ | 68              | 0.180            | 3.50    |
| SDS5022-101 □ | 100             | 0.200            | 3.00    |
| SDS5022-151 □ | 150             | 0.293            | 2.00    |
| SDS5022-221 □ | 220             | 0.470            | 1.90    |
| SDS5022-331 □ | 330             | 0.780            | 1.50    |
| SDS5022-471 □ | 470             | 1.200            | 1.30    |
| SDS5022-102 □ | 1000            | 1.900            | 0.87    |

\* 100uH 以上 Test Frequency : 1KHZ/1V

\* 100uH 以下 Test Frequency : 100KHZ/0.1V



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# SHIELDED SMD POWER INDUCTORS / SPI TYPE

## FEATURES

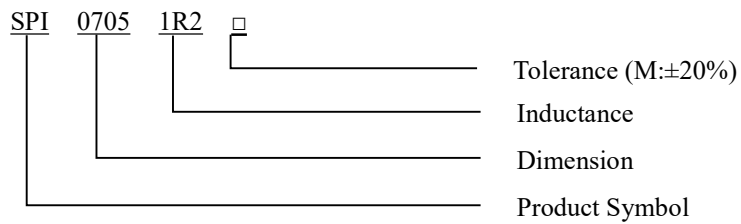
- ◆ With magnetic shield against radiation
- ◆ With magnetic shield against radiation
- ◆ Compact, low profile with low RDC and large current

## APPLICATIONS

- ◆ Industrial power modules.
- ◆ DC/DC converters, etc.
- ◆ Various categories of consumer electronics.



## ORDERING CODE



## SHAPES

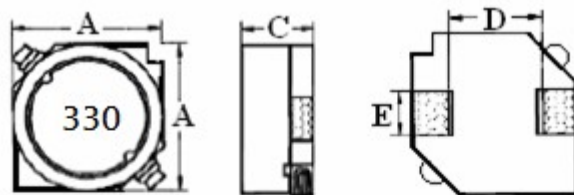


Fig. 1

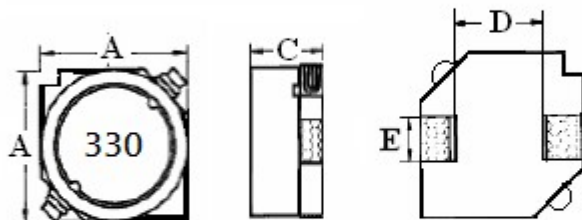


Fig. 2

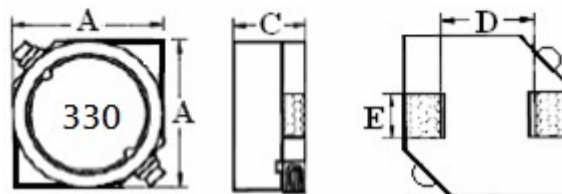


Fig.3



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## SHIELDED SMD POWER INDUCTORS / SPI TYPE

DIMENSIONS (UNIT: mm)

| Part No. | Fig. | A          | C          | D (Ref.) | E (Ref.) |
|----------|------|------------|------------|----------|----------|
| SPI 0603 | 3    | 6.0 ± 0.2  | 2.8 ± 0.2  | 4.0      | 2.0      |
| SPI 0703 | 1    | 7.0 ± 0.2  | 3.2 ± 0.2  | 4.9      | 2.0      |
| SPI 0705 | 1    | 7.0 ± 0.2  | 4.5 ± 0.3  | 4.9      | 2.0      |
| SPI 1005 | 1    | 10.5 ± 0.5 | 5.0 (MAX)  | 6.0      | 2.0      |
| SPI 1208 | 2    | 12.5 ± 0.3 | 7.5 ± 0.35 | 8.6      | 2.0      |

### ELECTRICAL CHARACTERISTICS FOR SPI0603

| Part No.      | Inductance<br>(uH) | RDC<br>(Ω) | IDC<br>(A) |
|---------------|--------------------|------------|------------|
| SPI0603-2R7 □ | 2.7                | 0.040      | 2.50       |
| SPI0603-3R3 □ | 3.3                | 0.050      | 2.35       |
| SPI0603-4R7 □ | 4.7                | 0.055      | 1.90       |
| SPI0603-6R8 □ | 6.8                | 0.090      | 1.78       |
| SPI0603-100 □ | 10                 | 0.150      | 1.40       |
| SPI0603-150 □ | 15                 | 0.170      | 1.35       |
| SPI0603-180 □ | 18                 | 0.200      | 1.10       |
| SPI0603-220 □ | 22                 | 0.250      | 0.95       |
| SPI0603-330 □ | 33                 | 0.300      | 0.80       |
| SPI0603-470 □ | 47                 | 0.450      | 0.70       |
| SPI0603-680 □ | 68                 | 0.500      | 0.60       |
| SPI0603-101 □ | 100                | 1.100      | 0.40       |
| SPI0603-151 □ | 150                | 1.500      | 0.33       |



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## SHIELDED SMD POWER INDUCTORS / SPI TYPE

### ELECTRICAL CHARACTERISTICS FOR SPI0703

| Part No.      | Inductance<br>( $\mu$ H) | RDC<br>( $\Omega$ ) | IDC<br>(A) |
|---------------|--------------------------|---------------------|------------|
| SPI0703-1R0 □ | 1.0                      | 0.025               | 7.00       |
| SPI0703-2R2 □ | 2.2                      | 0.030               | 4.50       |
| SPI0703-3R3 □ | 3.3                      | 0.035               | 3.20       |
| SPI0703-4R7 □ | 4.7                      | 0.040               | 2.80       |
| SPI0703-6R8 □ | 6.8                      | 0.060               | 2.30       |
| SPI0703-100 □ | 10                       | 0.080               | 1.90       |
| SPI0703-150 □ | 15                       | 0.095               | 1.45       |
| SPI0703-220 □ | 22                       | 0.170               | 1.30       |
| SPI0703-330 □ | 33                       | 0.160               | 1.10       |
| SPI0703-470 □ | 47                       | 0.268               | 0.96       |
| SPI0703-680 □ | 68                       | 0.350               | 0.80       |
| SPI0703-101 □ | 100                      | 0.450               | 0.60       |
| SPI0703-151 □ | 150                      | 1.000               | 0.50       |
| SPI0703-221 □ | 220                      | 1.500               | 0.35       |
| SPI0703-102 □ | 1000                     | 4.200               | 0.20       |

### ELECTRICAL CHARACTERISTICS FOR SPI0705

| Part No.      | Inductance<br>( $\mu$ H) | RDC<br>( $\Omega$ ) | IDC<br>(A) |
|---------------|--------------------------|---------------------|------------|
| SPI0705-1R0 □ | 1.0                      | 0.023               | 7.00       |
| SPI0705-2R2 □ | 2.2                      | 0.025               | 4.00       |
| SPI0705-3R3 □ | 3.3                      | 0.026               | 3.20       |
| SPI0705-4R7 □ | 4.7                      | 0.030               | 2.80       |
| SPI0705-6R8 □ | 6.8                      | 0.036               | 2.30       |
| SPI0705-100 □ | 10                       | 0.043               | 1.90       |
| SPI0705-150 □ | 15                       | 0.055               | 1.50       |
| SPI0705-220 □ | 22                       | 0.100               | 1.30       |
| SPI0705-330 □ | 33                       | 0.150               | 1.28       |
| SPI0705-470 □ | 47                       | 0.160               | 0.92       |
| SPI0705-680 □ | 68                       | 0.200               | 0.75       |
| SPI0705-820 □ | 82                       | 0.270               | 0.70       |
| SPI0705-101 □ | 100                      | 0.320               | 0.58       |



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## SHIELDED SMD POWER INDUCTORS / SPI TYPE

### ELECTRICAL CHARACTERISTICS FOR SPI0705

| Part No.      | Inductance<br>( $\mu$ H) | RDC<br>( $\Omega$ ) | IDC<br>(A) |
|---------------|--------------------------|---------------------|------------|
| SPI0705-121 □ | 120                      | 0.350               | 0.53       |
| SPI0705-221 □ | 220                      | 0.800               | 0.40       |
| SPI0705-331 □ | 330                      | 0.850               | 0.36       |
| SPI0705-102 □ | 1000                     | 3.000               | 0.17       |

### ELECTRICAL CHARACTERISTICS FOR SPI1005

| Part No.      | Inductance<br>( $\mu$ H) | RDC<br>( $\Omega$ ) | IDC<br>(A) |
|---------------|--------------------------|---------------------|------------|
| SPI1005-2R2 □ | 2.2                      | 0.016               | 7.00       |
| SPI1005-3R3 □ | 3.3                      | 0.018               | 5.50       |
| SPI1005-4R7 □ | 4.7                      | 0.020               | 4.80       |
| SPI1005-5R6 □ | 5.6                      | 0.030               | 4.50       |
| SPI1005-6R8 □ | 6.8                      | 0.035               | 4.30       |
| SPI1005-100 □ | 10                       | 0.040               | 3.50       |
| SPI1005-150 □ | 15                       | 0.050               | 3.20       |
| SPI1005-220 □ | 22                       | 0.059               | 2.50       |
| SPI1005-330 □ | 33                       | 0.082               | 1.70       |
| SPI1005-470 □ | 47                       | 0.150               | 1.60       |
| SPI1005-680 □ | 68                       | 0.200               | 1.20       |
| SPI1005-101 □ | 100                      | 0.300               | 1.10       |
| SPI1005-151 □ | 150                      | 0.400               | 1.00       |
| SPI1005-221 □ | 220                      | 0.600               | 0.90       |
| SPI1005-331 □ | 330                      | 0.785               | 0.70       |
| SPI1005-681 □ | 680                      | 2.500               | 0.40       |



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## SHIELDED SMD POWER INDUCTORS / SPI TYPE

### ELECTRICAL CHARACTERISTICS FOR SPI1208

| Part No.      | Inductance<br>( $\mu$ H) | RDC<br>( $\Omega$ ) | IDC<br>(A) |
|---------------|--------------------------|---------------------|------------|
| SPI1208-6R8 □ | 6.8                      | 0.030               | 9.50       |
| SPI1208-100 □ | 10                       | 0.035               | 8.00       |
| SPI1208-150 □ | 15                       | 0.050               | 7.00       |
| SPI1208-220 □ | 22                       | 0.060               | 5.80       |
| SPI1208-330 □ | 33                       | 0.080               | 4.50       |
| SPI1208-470 □ | 47                       | 0.125               | 4.10       |
| SPI1208-680 □ | 68                       | 0.157               | 3.30       |
| SPI1208-101 □ | 100                      | 0.250               | 2.70       |
| SPI1208-221 □ | 220                      | 0.430               | 2.00       |
| SPI1208-471 □ | 470                      | 0.770               | 1.35       |

\* 100 $\mu$ H 以上 Test Frequency : 1KHZ/1V

\* 100 $\mu$ H 以下 Test Frequency : 1KHZ/0.25V



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# SHIELDED SMD POWER INDUCTORS / SRI TYPE

## FEATURES

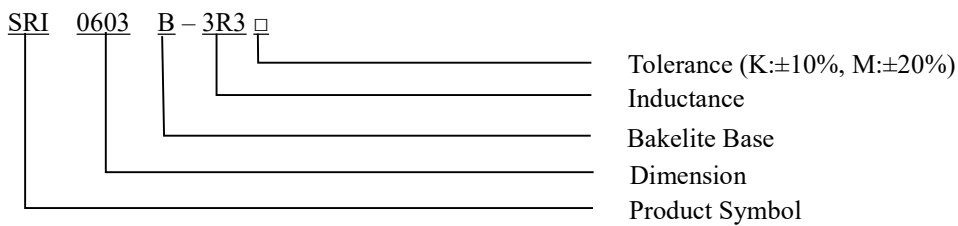
- ◆ Excellent solder ability and high heat resistance for flow soldering.
- ◆ For large current circuits due to its low DC resistance.
- ◆ Excellent in terminal strength due to its high performance ferrite core material and solder ability.



## APPLICATIONS

- ◆ Modern power solutions.
- ◆ AI devices.
- ◆ DC/DC converters, etc.
- ◆ Various categories of consumer electronics.

## ORDERING CODE



## SHAPES

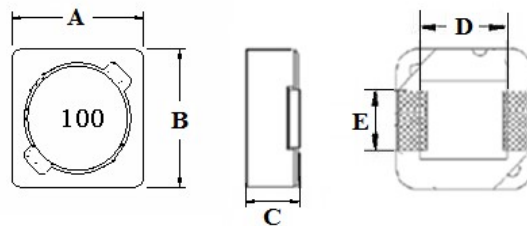


Fig.1

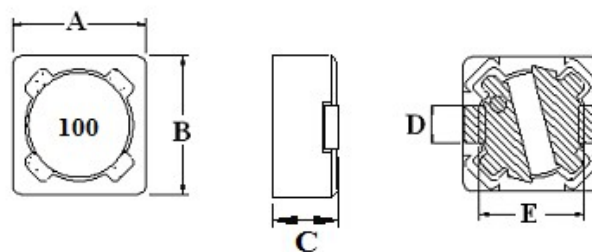


Fig.2

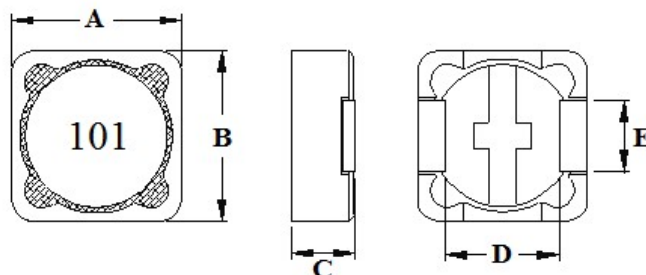


Fig.3



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## SHIELDED SMD POWER INDUCTORS / SRI TYPE

### DIMENSIONS (UNIT: mm)

| Part No.   | Fig. | A          | B          | C (Max) | D (Ref.) | E (Ref.) |
|------------|------|------------|------------|---------|----------|----------|
| SRI 0603 B | 1    | 6.6 ± 0.3  | 6.2 ± 0.3  | 3.0     | 4.0      | 1.50     |
| SRI 0605 B | 1    | 6.6 ± 0.3  | 6.2 ± 0.3  | 5.0     | 4.0      | 1.50     |
| SRI 0703   | 2    | 7.3 ± 0.3  | 7.3 ± 0.3  | 3.4     | 2.0      | 5.00     |
| SRI 0704   | 2    | 7.3 ± 0.3  | 7.3 ± 0.3  | 4.5     | 2.0      | 5.00     |
| SRI 1004   | 3    | 10.0 ± 0.5 | 10.0 ± 0.5 | 4.5     | 6.1      | 3.86     |
| SRI 1204   | 3    | 12.0 ± 0.5 | 12.0 ± 0.5 | 5.0     | 8.0      | 5.00     |
| SRI 1205   | 3    | 12.0 ± 0.5 | 12.0 ± 0.5 | 6.0     | 8.0      | 5.00     |
| SRI 1207   | 3    | 12.0 ± 0.5 | 12.0 ± 0.5 | 8.0     | 8.0      | 5.00     |
| SRI 1209   | 3    | 12.0 ± 0.5 | 12.0 ± 0.5 | 10.0    | 8.0      | 5.00     |

### ELECTRICAL CHARACTERISTICS FOR SRI0603B

| Part No.       | Inductance (uH) | RDC (Ω) | IDC (A) |
|----------------|-----------------|---------|---------|
| SRI0603B-1R0 □ | 1.0             | 0.030   | 5.50    |
| SRI0603B-1R5 □ | 1.5             | 0.040   | 4.50    |
| SRI0603B-2R2 □ | 2.2             | 0.050   | 3.50    |
| SRI0603B-3R3 □ | 3.3             | 0.055   | 3.00    |
| SRI0603B-4R7 □ | 4.7             | 0.060   | 2.40    |
| SRI0603B-5R6 □ | 5.6             | 0.072   | 2.30    |
| SRI0603B-6R8 □ | 6.8             | 0.095   | 2.20    |
| SRI0603B-100 □ | 10              | 0.150   | 1.90    |
| SRI0603B-220 □ | 22              | 0.340   | 1.20    |
| SRI0603B-330 □ | 33              | 0.450   | 1.00    |
| SRI0603B-470 □ | 47              | 0.690   | 0.85    |
| SRI0603B-680 □ | 68              | 0.750   | 0.65    |
| SRI0603B-820 □ | 82              | 0.770   | 0.55    |
| SRI0603B-101 □ | 100             | 1.400   | 0.50    |
| SRI0603B-121 □ | 120             | 1.900   | 0.45    |
| SRI0603B-181 □ | 180             | 2.770   | 0.40    |
| SRI0603B-471 □ | 470             | 4.030   | 0.26    |
| SRI0603B-681 □ | 680             | 6.300   | 0.21    |
| SRI0603B-821 □ | 820             | 7.400   | 0.20    |
| SRI0603B-102 □ | 1000            | 10.500  | 0.16    |



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## SHIELDED SMD POWER INDUCTORS / SRI TYPE

### ELECTRICAL CHARACTERISTICS FOR SRI0605B

| Part No.       | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|----------------|-----------------|------------------|---------|
| SRI0605B-1R5 □ | 1.5             | 0.030            | 6.30    |
| SRI0605B-2R2 □ | 2.2             | 0.048            | 4.30    |
| SRI0605B-6R8 □ | 6.8             | 0.080            | 2.90    |
| SRI0605B-100 □ | 10              | 0.120            | 2.00    |
| SRI0605B-150 □ | 15              | 0.180            | 1.90    |
| SRI0605B-220 □ | 22              | 0.270            | 1.70    |
| SRI0605B-270 □ | 27              | 0.350            | 1.50    |
| SRI0605B-330 □ | 33              | 0.450            | 1.40    |
| SRI0605B-470 □ | 47              | 0.520            | 1.10    |
| SRI0605B-680 □ | 68              | 0.630            | 0.95    |
| SRI0605B-101 □ | 100             | 1.030            | 0.80    |
| SRI0605B-151 □ | 150             | 1.100            | 0.60    |
| SRI0605B-471 □ | 470             | 3.000            | 0.35    |
| SRI0605B-561 □ | 560             | 4.000            | 0.30    |
| SRI0605B-102 □ | 1000            | 8.000            | 0.20    |



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## SHIELDED SMD POWER INDUCTORS / SRI TYPE

### ELECTRICAL CHARACTERISTICS FOR SRI0703

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SRI0703-1R0 □ | 1.0             | 0.020            | 7.00    |
| SRI0703-1R5 □ | 1.5             | 0.028            | 6.00    |
| SRI0703-2R2 □ | 2.2             | 0.032            | 4.50    |
| SRI0703-3R3 □ | 3.3             | 0.040            | 4.20    |
| SRI0703-4R7 □ | 4.7             | 0.055            | 3.35    |
| SRI0703-6R8 □ | 6.8             | 0.065            | 3.00    |
| SRI0703-100 □ | 10              | 0.076            | 2.30    |
| SRI0703-120 □ | 12              | 0.100            | 2.20    |
| SRI0703-150 □ | 15              | 0.130            | 2.00    |
| SRI0703-180 □ | 18              | 0.150            | 1.80    |
| SRI0703-220 □ | 22              | 0.190            | 1.50    |
| SRI0703-330 □ | 33              | 0.280            | 1.20    |
| SRI0703-390 □ | 39              | 0.340            | 0.90    |
| SRI0703-470 □ | 47              | 0.450            | 0.80    |
| SRI0703-560 □ | 56              | 0.500            | 0.70    |
| SRI0703-680 □ | 68              | 0.520            | 0.61    |
| SRI0703-820 □ | 82              | 0.690            | 0.55    |
| SRI0703-101 □ | 100             | 0.790            | 0.50    |
| SRI0703-151 □ | 150             | 1.000            | 0.46    |
| SRI0703-181 □ | 180             | 1.100            | 0.39    |
| SRI0703-221 □ | 220             | 1.650            | 0.38    |
| SRI0703-271 □ | 270             | 2.310            | 0.36    |
| SRI0703-331 □ | 330             | 2.620            | 0.35    |
| SRI0703-471 □ | 470             | 4.180            | 0.32    |
| SRI0703-681 □ | 680             | 5.730            | 0.30    |
| SRI0703-821 □ | 820             | 7.000            | 0.27    |
| SRI0703-102 □ | 1000            | 9.660            | 0.23    |



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## SHIELDED SMD POWER INDUCTORS / SRI TYPE

### ELECTRICAL CHARACTERISTICS FOR SRI0704

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SRI0704-1R0 □ | 1.0             | 0.015            | 9.00    |
| SRI0704-1R5 □ | 1.5             | 0.026            | 8.00    |
| SRI0704-2R2 □ | 2.2             | 0.030            | 6.20    |
| SRI0704-2R7 □ | 2.7             | 0.035            | 5.50    |
| SRI0704-3R3 □ | 3.3             | 0.038            | 4.70    |
| SRI0704-4R7 □ | 4.7             | 0.047            | 3.50    |
| SRI0704-6R8 □ | 6.8             | 0.050            | 3.40    |
| SRI0704-7R7 □ | 7.7             | 0.053            | 3.10    |
| SRI0704-100 □ | 10              | 0.055            | 3.00    |
| SRI0704-150 □ | 15              | 0.081            | 2.50    |
| SRI0704-180 □ | 18              | 0.100            | 2.00    |
| SRI0704-220 □ | 22              | 0.110            | 1.95    |
| SRI0704-270 □ | 27              | 0.128            | 1.50    |
| SRI0704-330 □ | 33              | 0.250            | 1.20    |
| SRI0704-390 □ | 39              | 0.300            | 1.10    |
| SRI0704-470 □ | 47              | 0.320            | 1.00    |
| SRI0704-560 □ | 56              | 0.350            | 0.95    |
| SRI0704-680 □ | 68              | 0.380            | 0.90    |
| SRI0704-101 □ | 100             | 0.610            | 0.85    |
| SRI0704-121 □ | 120             | 0.850            | 0.80    |
| SRI0704-151 □ | 150             | 0.880            | 0.75    |
| SRI0704-181 □ | 180             | 1.350            | 0.70    |
| SRI0704-221 □ | 220             | 1.400            | 0.62    |
| SRI0704-271 □ | 270             | 1.500            | 0.55    |
| SRI0704-331 □ | 330             | 1.500            | 0.50    |
| SRI0704-391 □ | 390             | 1.800            | 0.48    |
| SRI0704-471 □ | 470             | 2.600            | 0.44    |
| SRI0704-561 □ | 560             | 2.700            | 0.40    |
| SRI0704-681 □ | 680             | 3.700            | 0.38    |
| SRI0704-821 □ | 820             | 4.500            | 0.32    |
| SRI0704-102 □ | 1000            | 5.000            | 0.22    |



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## SHIELDED SMD POWER INDUCTORS / SRI TYPE

### ELECTRICAL CHARACTERISTICS FOR SRI1004

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SRI1004-1R2 □ | 1.2             | 0.015            | 13.00   |
| SRI1004-2R2 □ | 2.2             | 0.020            | 9.00    |
| SRI1004-3R3 □ | 3.3             | 0.025            | 8.00    |
| SRI1004-4R7 □ | 4.7             | 0.030            | 6.00    |
| SRI1004-5R6 □ | 5.6             | 0.035            | 5.80    |
| SRI1004-6R8 □ | 6.8             | 0.040            | 5.60    |
| SRI1004-8R2 □ | 8.2             | 0.045            | 5.00    |
| SRI1004-100 □ | 10              | 0.050            | 4.50    |
| SRI1004-150 □ | 15              | 0.080            | 3.90    |
| SRI1004-220 □ | 22              | 0.100            | 3.30    |
| SRI1004-330 □ | 33              | 0.200            | 2.60    |
| SRI1004-470 □ | 47              | 0.230            | 2.00    |
| SRI1004-680 □ | 68              | 0.300            | 1.70    |
| SRI1004-820 □ | 82              | 0.350            | 1.65    |
| SRI1004-101 □ | 100             | 0.400            | 1.53    |
| SRI1004-121 □ | 120             | 0.500            | 1.40    |
| SRI1004-221 □ | 220             | 0.600            | 1.05    |
| SRI1004-331 □ | 330             | 0.900            | 0.83    |
| SRI1004-471 □ | 470             | 1.230            | 0.90    |
| SRI1004-681 □ | 680             | 2.000            | 0.58    |
| SRI1004-821 □ | 820             | 3.000            | 0.55    |
| SRI1004-102 □ | 1000            | 3.200            | 0.50    |



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## SHIELDED SMD POWER INDUCTORS / SRI TYPE

### ELECTRICAL CHARACTERISTICS FOR SRI1204

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SRI1204-2R2 □ | 2.2             | 0.012            | 9.80    |
| SRI1204-3R0 □ | 3.0             | 0.015            | 9.20    |
| SRI1204-3R9 □ | 3.9             | 0.020            | 8.00    |
| SRI1204-4R7 □ | 4.7             | 0.025            | 7.80    |
| SRI1204-5R6 □ | 5.6             | 0.030            | 7.30    |
| SRI1204-6R8 □ | 6.8             | 0.031            | 6.30    |
| SRI1204-8R2 □ | 8.2             | 0.033            | 5.00    |
| SRI1204-100 □ | 10              | 0.035            | 4.50    |
| SRI1204-120 □ | 12              | 0.038            | 4.20    |
| SRI1204-150 □ | 15              | 0.050            | 4.00    |
| SRI1204-180 □ | 18              | 0.057            | 3.70    |
| SRI1204-220 □ | 22              | 0.060            | 3.50    |
| SRI1204-270 □ | 27              | 0.080            | 3.00    |
| SRI1204-330 □ | 33              | 0.097            | 2.70    |
| SRI1204-470 □ | 47              | 0.150            | 2.10    |
| SRI1204-560 □ | 56              | 0.190            | 1.95    |
| SRI1204-680 □ | 68              | 0.220            | 1.75    |
| SRI1204-820 □ | 82              | 0.260            | 1.70    |
| SRI1204-101 □ | 100             | 0.280            | 1.55    |
| SRI1204-121 □ | 120             | 0.290            | 1.45    |
| SRI1204-151 □ | 150             | 0.530            | 1.30    |
| SRI1204-221 □ | 220             | 0.700            | 1.05    |
| SRI1204-271 □ | 270             | 0.800            | 0.95    |



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## SHIELDED SMD POWER INDUCTORS / SRI TYPE

### ELECTRICAL CHARACTERISTICS FOR SRI1205

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SRI1205-1R0 □ | 1.0             | 0.017            | 16.00   |
| SRI1205-1R5 □ | 1.5             | 0.018            | 12.00   |
| SRI1205-2R2 □ | 2.2             | 0.020            | 10.00   |
| SRI1205-3R3 □ | 3.3             | 0.021            | 8.50    |
| SRI1205-4R7 □ | 4.7             | 0.022            | 8.00    |
| SRI1205-5R6 □ | 5.6             | 0.023            | 7.50    |
| SRI1205-6R8 □ | 6.8             | 0.024            | 6.50    |
| SRI1205-8R2 □ | 8.2             | 0.025            | 6.00    |
| SRI1205-100 □ | 10              | 0.026            | 5.00    |
| SRI1205-150 □ | 15              | 0.030            | 4.20    |
| SRI1205-180 □ | 18              | 0.034            | 4.00    |
| SRI1205-220 □ | 22              | 0.045            | 3.50    |
| SRI1205-270 □ | 27              | 0.055            | 3.10    |
| SRI1205-330 □ | 33              | 0.067            | 2.90    |
| SRI1205-390 □ | 39              | 0.083            | 2.80    |
| SRI1205-470 □ | 47              | 0.110            | 2.50    |
| SRI1205-560 □ | 56              | 0.140            | 2.00    |
| SRI1205-680 □ | 68              | 0.160            | 1.80    |
| SRI1205-820 □ | 82              | 0.180            | 1.70    |
| SRI1205-101 □ | 100             | 0.240            | 1.60    |
| SRI1205-121 □ | 120             | 0.290            | 1.50    |
| SRI1205-151 □ | 150             | 0.320            | 1.40    |
| SRI1205-181 □ | 180             | 0.340            | 1.20    |
| SRI1205-221 □ | 220             | 0.550            | 1.10    |
| SRI1205-271 □ | 270             | 0.580            | 1.00    |
| SRI1205-331 □ | 330             | 0.620            | 0.90    |
| SRI1205-391 □ | 390             | 0.640            | 0.80    |
| SRI1205-471 □ | 470             | 0.820            | 0.70    |
| SRI1205-561 □ | 560             | 0.840            | 0.65    |
| SRI1205-681 □ | 680             | 1.200            | 0.60    |
| SRI1205-821 □ | 820             | 1.340            | 0.50    |
| SRI1205-102 □ | 1000            | 1.650            | 0.43    |



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## SHIELDED SMD POWER INDUCTORS / SRI TYPE

### ELECTRICAL CHARACTERISTICS FOR SRI1207

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SRI1207-1R2 □ | 1.2             | 0.015            | 19.00   |
| SRI1207-2R2 □ | 2.2             | 0.016            | 18.00   |
| SRI1207-3R3 □ | 3.3             | 0.018            | 13.00   |
| SRI1207-4R7 □ | 4.7             | 0.019            | 12.00   |
| SRI1207-5R6 □ | 5.6             | 0.020            | 11.50   |
| SRI1207-6R8 □ | 6.8             | 0.022            | 11.00   |
| SRI1207-8R2 □ | 8.2             | 0.023            | 9.50    |
| SRI1207-100 □ | 10              | 0.024            | 8.00    |
| SRI1207-120 □ | 12              | 0.025            | 7.50    |
| SRI1207-150 □ | 15              | 0.027            | 7.00    |
| SRI1207-180 □ | 18              | 0.033            | 6.00    |
| SRI1207-220 □ | 22              | 0.043            | 5.50    |
| SRI1207-270 □ | 27              | 0.046            | 5.20    |
| SRI1207-330 □ | 33              | 0.065            | 3.50    |
| SRI1207-390 □ | 39              | 0.073            | 3.40    |
| SRI1207-470 □ | 47              | 0.100            | 3.30    |
| SRI1207-560 □ | 56              | 0.120            | 3.20    |
| SRI1207-680 □ | 68              | 0.130            | 3.10    |
| SRI1207-820 □ | 82              | 0.150            | 3.00    |
| SRI1207-101 □ | 100             | 0.220            | 2.90    |
| SRI1207-121 □ | 120             | 0.290            | 2.25    |
| SRI1207-151 □ | 150             | 0.300            | 2.10    |
| SRI1207-181 □ | 180             | 0.320            | 2.00    |
| SRI1207-221 □ | 220             | 0.430            | 1.70    |
| SRI1207-271 □ | 270             | 0.500            | 1.60    |
| SRI1207-331 □ | 330             | 0.550            | 1.50    |
| SRI1207-391 □ | 390             | 0.580            | 1.40    |
| SRI1207-471 □ | 470             | 0.650            | 1.30    |
| SRI1207-561 □ | 560             | 0.720            | 1.10    |
| SRI1207-681 □ | 680             | 0.800            | 1.00    |
| SRI1207-821 □ | 820             | 1.000            | 0.90    |
| SRI1207-102 □ | 1000            | 1.500            | 0.80    |



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## SHIELDED SMD POWER INDUCTORS / SRI TYPE

### ELECTRICAL CHARACTERISTICS FOR SRI1209

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| SRI1209-1R0 □ | 1.0             | 0.012            | 20.00   |
| SRI1209-2R2 □ | 2.2             | 0.015            | 18.00   |
| SRI1209-3R3 □ | 3.3             | 0.018            | 16.00   |
| SRI1209-4R7 □ | 4.7             | 0.019            | 15.00   |
| SRI1209-6R8 □ | 6.8             | 0.021            | 12.80   |
| SRI1209-8R2 □ | 8.2             | 0.022            | 11.10   |
| SRI1209-100 □ | 10              | 0.024            | 10.50   |
| SRI1209-120 □ | 12              | 0.026            | 9.50    |
| SRI1209-150 □ | 15              | 0.029            | 7.00    |
| SRI1209-220 □ | 22              | 0.040            | 6.50    |
| SRI1209-330 □ | 33              | 0.055            | 6.00    |
| SRI1209-470 □ | 47              | 0.060            | 5.00    |
| SRI1209-680 □ | 68              | 0.100            | 3.80    |
| SRI1209-820 □ | 82              | 0.120            | 3.50    |
| SRI1209-101 □ | 100             | 0.135            | 3.00    |
| SRI1209-151 □ | 150             | 0.180            | 2.50    |
| SRI1209-181 □ | 180             | 0.250            | 2.35    |
| SRI1209-221 □ | 220             | 0.300            | 2.20    |
| SRI1209-331 □ | 330             | 0.350            | 1.90    |
| SRI1209-471 □ | 470             | 0.490            | 1.50    |
| SRI1209-681 □ | 680             | 0.655            | 1.30    |
| SRI1209-821 □ | 820             | 0.700            | 1.20    |
| SRI1209-102 □ | 1000            | 0.830            | 1.00    |

\*100uH 以上 Test Frequency : 1KHZ/1V

\*100uH 以下 Test Frequency : 100KHZ/0.1V



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## SMD POWER INDUCTORS / WDI TYPE

### FEATURES

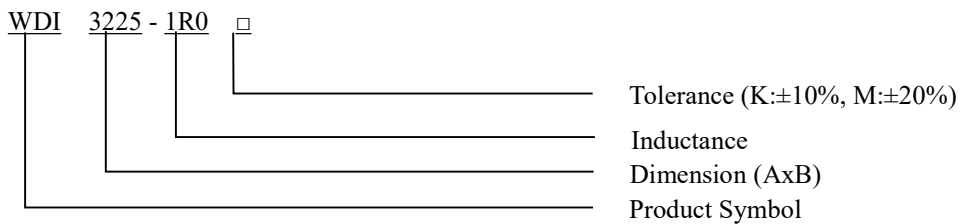
- ◆ The series is a range of miniature, surface-mount.
- ◆ I-core power inductors.
- ◆ Suitable for and reflow soldering.
- ◆ They are designed for use in power applications with restricted PCB space and height.



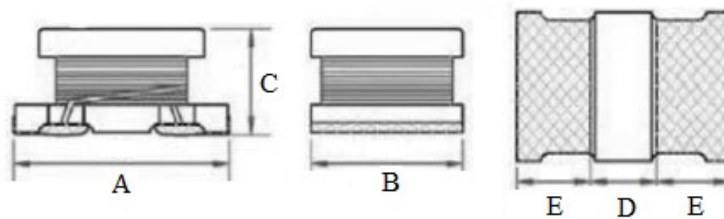
### APPLICATIONS

- ◆ Networking devices.
- ◆ Industrial modules.
- ◆ DC/DC converters, etc.
- ◆ Various categories of consumer electronics.

### ORDERING CODE



### SHAPES



### DIMENSIONS UNIT: mm (inch)

| Part No. | A         | B         | C         | D (MIN) | E (MIN) |
|----------|-----------|-----------|-----------|---------|---------|
| WDI 3216 | 3.2 ± 0.3 | 1.6 ± 0.2 | 1.8 ± 0.3 | 0.7     | 0.7     |
| WDI 3225 | 3.2 ± 0.3 | 2.5 ± 0.2 | 2.0 ± 0.3 | 0.7     | 0.7     |
| WDI 4532 | 4.5 ± 0.3 | 3.2 ± 0.2 | 2.6 ± 0.3 | 1.0     | 1.0     |
| WDI 5750 | 5.7 ± 0.3 | 5.0 ± 0.3 | 4.7 ± 0.3 | 1.7     | 1.3     |



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## SMD POWER INDUCTORS / WDI TYPE

### ELECTRICAL CHARACTERISTICS FOR WDI3216

| Part No.      | Inductance<br>( $\mu$ H) | Test Frequency<br>(MHz) | RDC<br>( $\Omega$ ) Max | IDC<br>(mA) Max |
|---------------|--------------------------|-------------------------|-------------------------|-----------------|
| WDI3216-1R0 □ | 1.0                      | 1MHz                    | 0.364                   | 510             |
| WDI3216-2R2 □ | 2.2                      | 1MHz                    | 0.533                   | 430             |
| WDI3216-4R7 □ | 4.7                      | 1MHz                    | 0.845                   | 340             |
| WDI3216-100 □ | 10                       | 1MHz                    | 1.690                   | 230             |
| WDI3216-220 □ | 22                       | 1MHz                    | 3.900                   | 160             |
| WDI3216-470 □ | 47                       | 1MHz                    | 10.400                  | 100             |
| WDI3216-101 □ | 100                      | 1MHz                    | 15.600                  | 80              |

### ELECTRICAL CHARACTERISTICS FOR WDI3225

| Part No.     | Inductance<br>( $\mu$ H) | Test Frequency<br>(MHz) | RDC<br>( $\Omega$ ) Max | IDC<br>(mA) Max |
|--------------|--------------------------|-------------------------|-------------------------|-----------------|
| WDI3225-1R0□ | 1.0                      | 1MHz                    | 0.500                   | 440             |
| WDI3225-1R5□ | 1.5                      | 1MHz                    | 0.600                   | 400             |
| WDI3225-2R2□ | 2.2                      | 1MHz                    | 0.800                   | 370             |
| WDI3225-3R3□ | 3.3                      | 1MHz                    | 1.000                   | 300             |
| WDI3225-4R7□ | 4.7                      | 1MHz                    | 1.200                   | 270             |
| WDI3225-5R6□ | 5.6                      | 1MHz                    | 1.300                   | 250             |
| WDI3225-6R8□ | 6.8                      | 1MHz                    | 1.500                   | 240             |
| WDI3225-8R2□ | 8.2                      | 1MHz                    | 1.600                   | 220             |
| WDI3225-100□ | 10                       | 1MHz                    | 1.800                   | 190             |
| WDI3225-120□ | 12                       | 1MHz                    | 2.000                   | 180             |
| WDI3225-150□ | 15                       | 1MHz                    | 2.200                   | 170             |
| WDI3225-180□ | 18                       | 1MHz                    | 2.500                   | 160             |
| WDI3225-220□ | 22                       | 1MHz                    | 2.800                   | 150             |
| WDI3225-270□ | 27                       | 1MHz                    | 3.100                   | 120             |
| WDI3225-330□ | 33                       | 1MHz                    | 3.500                   | 110             |
| WDI3225-470□ | 47                       | 1MHz                    | 4.300                   | 100             |
| WDI3225-560□ | 56                       | 1MHz                    | 4.900                   | 90              |
| WDI3225-680□ | 68                       | 1MHz                    | 5.500                   | 85              |
| WDI3225-820□ | 82                       | 1MHz                    | 6.200                   | 80              |
| WDI3225-101□ | 100                      | 1MHz                    | 7.000                   | 75              |
| WDI3225-121□ | 120                      | 1MHz                    | 8.000                   | 70              |
| WDI3225-151□ | 150                      | 1MHz                    | 9.300                   | 70              |
| WDI3225-181□ | 180                      | 1MHz                    | 10.200                  | 60              |



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## SMD POWER INDUCTORS / WDI TYPE

### ELECTRICAL CHARACTERISTICS FOR WDI3225

| Part No.     | Inductance<br>(uH) | Test Frequency<br>(MHz) | RDC<br>(Ω) Max | IDC<br>(mA) Max |
|--------------|--------------------|-------------------------|----------------|-----------------|
| WDI3225-221□ | 220                | 1MHz                    | 11.800         | 60              |
| WDI3225-271□ | 270                | 1MHz                    | 12.500         | 60              |
| WDI3225-331□ | 330                | 1MHz                    | 13.000         | 60              |
| WDI3225-391□ | 390                | 1MHz                    | 22.000         | 50              |
| WDI3225-471□ | 470                | 1MHz                    | 25.000         | 45              |
| WDI3225-561□ | 560                | 1MHz                    | 28.000         | 40              |

### ELECTRICAL CHARACTERISTICS FOR WDI4532

| Part No.     | Inductance<br>(uH) | Test Frequency<br>(MHz) | RDC<br>(Ω) Max | IDC<br>(mA) Max |
|--------------|--------------------|-------------------------|----------------|-----------------|
| WDI4532-1R0□ | 1.0                | 1MHz                    | 0.200          | 500             |
| WDI4532-1R5□ | 1.5                | 1MHz                    | 0.280          | 500             |
| WDI4532-2R2□ | 2.2                | 1MHz                    | 0.300          | 500             |
| WDI4532-3R3□ | 3.3                | 1MHz                    | 0.350          | 500             |
| WDI4532-4R7□ | 4.7                | 1MHz                    | 0.400          | 500             |
| WDI4532-5R6□ | 5.6                | 1MHz                    | 0.470          | 500             |
| WDI4532-6R8□ | 6.8                | 1MHz                    | 0.500          | 450             |
| WDI4532-8R2□ | 8.2                | 1MHz                    | 0.530          | 450             |
| WDI4532-100□ | 10                 | 1MHz                    | 0.560          | 400             |
| WDI4532-120□ | 12                 | 1MHz                    | 0.620          | 380             |
| WDI4532-150□ | 15                 | 1MHz                    | 0.730          | 360             |
| WDI4532-180□ | 18                 | 1MHz                    | 0.820          | 340             |
| WDI4532-220□ | 22                 | 1MHz                    | 0.940          | 320             |
| WDI4532-270□ | 27                 | 1MHz                    | 1.100          | 300             |
| WDI4532-330□ | 33                 | 1MHz                    | 1.200          | 270             |
| WDI4532-390□ | 39                 | 1MHz                    | 1.400          | 240             |
| WDI4532-470□ | 47                 | 1MHz                    | 1.500          | 220             |
| WDI4532-560□ | 56                 | 1MHz                    | 1.700          | 200             |
| WDI4532-680□ | 68                 | 1MHz                    | 1.900          | 180             |
| WDI4532-820□ | 82                 | 1MHz                    | 2.200          | 170             |
| WDI4532-101□ | 100                | 1MHz                    | 2.500          | 160             |
| WDI4532-121□ | 120                | 1MHz                    | 3.000          | 150             |
| WDI4532-151□ | 150                | 1MHz                    | 3.700          | 130             |
| WDI4532-181□ | 180                | 1MHz                    | 4.500          | 120             |



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## SMD POWER INDUCTORS / WDI TYPE

### ELECTRICAL CHARACTERISTICS FOR WDI4532

| Part No.     | Inductance<br>(uH) | Test Frequency<br>(MHz) | RDC<br>(Ω) Max | IDC<br>(mA) Max |
|--------------|--------------------|-------------------------|----------------|-----------------|
| WDI4532-221□ | 220                | 1MHz                    | 5.400          | 110             |
| WDI4532-271□ | 270                | 1MHz                    | 6.800          | 100             |
| WDI4532-331□ | 330                | 1MHz                    | 8.200          | 90              |
| WDI4532-391□ | 390                | 1MHz                    | 9.700          | 90              |
| WDI4532-471□ | 470                | 1KHz                    | 11.800         | 80              |
| WDI4532-561□ | 560                | 1KHz                    | 14.500         | 70              |
| WDI4532-681□ | 680                | 1KHz                    | 17.000         | 60              |
| WDI4532-821□ | 820                | 1KHz                    | 20.500         | 60              |
| WDI4532-102□ | 1000               | 1KHz                    | 25.000         | 50              |

### ELECTRICAL CHARACTERISTICS FOR WDI5750

| Part No.       | Inductance<br>(uH) | Test Frequency<br>(MHz) | RDC<br>(Ω)Max | IDC<br>(A) Max |
|----------------|--------------------|-------------------------|---------------|----------------|
| WDI 5750-1R0 □ | 1.0                | 1MHz                    | 0.027         | 4.00           |
| WDI 5750-1R5 □ | 1.5                | 1MHz                    | 0.031         | 3.70           |
| WDI 5750-2R2 □ | 2.2                | 1MHz                    | 0.041         | 3.20           |
| WDI 5750-3R3 □ | 3.3                | 1MHz                    | 0.050         | 2.90           |
| WDI 5750-4R7 □ | 4.7                | 1MHz                    | 0.057         | 2.70           |
| WDI 5750-6R8 □ | 6.8                | 1MHz                    | 0.104         | 2.00           |
| WDI 5750-100 □ | 10                 | 1MHz                    | 0.130         | 1.70           |
| WDI 5750-150 □ | 15                 | 1MHz                    | 0.210         | 1.40           |
| WDI 5750-220 □ | 22                 | 1MHz                    | 0.266         | 1.20           |
| WDI 5750-330 □ | 33                 | 1MHz                    | 0.448         | 0.90           |
| WDI 5750-470 □ | 47                 | 1MHz                    | 0.560         | 0.80           |
| WDI 5750-680 □ | 68                 | 1MHz                    | 0.938         | 0.64           |
| WDI 5750-101 □ | 100                | 100KHz                  | 1.204         | 0.56           |
| WDI 5750-151 □ | 150                | 100KHz                  | 2.660         | 0.42           |
| WDI 5750-221 □ | 220                | 100KHz                  | 3.360         | 0.32           |
| WDI 5750-331 □ | 330                | 100KHz                  | 6.160         | 0.27           |
| WDI 5750-471 □ | 470                | 100KHz                  | 7.560         | 0.24           |
| WDI 5750-681 □ | 680                | 100KHz                  | 11.340        | 0.19           |
| WDI 5750-102 □ | 1000               | 10KHz                   | 14.420        | 0.15           |

**Notes:**

- 1) Test Equipment : HP4284A or WK3260B LCR Meter.
- 2) DCR limits @ 20°C. Test Equipment: CH502BC.



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# UNSHIELDED SMD POWER INDUCTORS / DS TYPE

## FEATURES

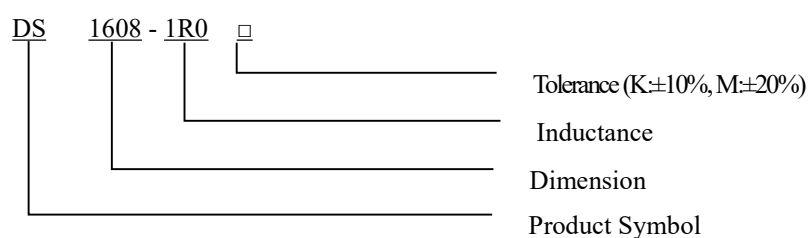
- ◆ Designed for the smallest possible size and high performance
- ◆ They are with high energy storage and very low resistance making them the ideal inductors for DC-DC conversion in the following applications
- ◆ DS 1608 used ceramic base with gold-plating
- ◆ Others used LCP plastic base



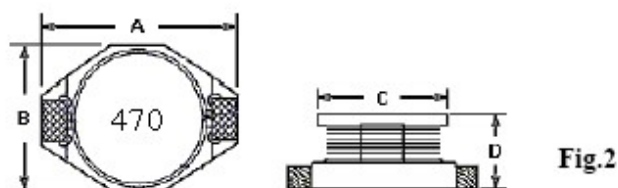
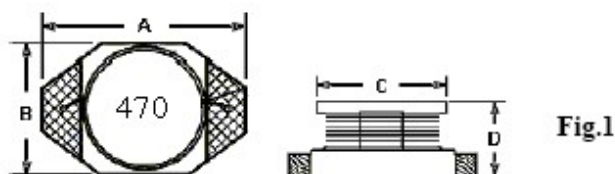
## APPLICATIONS

- ◆ Wearables.
- ◆ Smart sensors.
- ◆ AI systems.
- ◆ Industrial systems.

## ORDERING CODE



## SHAPES



## DIMENSIONS (UNIT: mm)

| Part No. | Fig. | A(Max) | B(Max) | C(Max) | D(Max) |
|----------|------|--------|--------|--------|--------|
| DS 1608  | 1    | 6.60   | 4.45   | 3.94   | 2.92   |
| DS 3308  | 2    | 12.95  | 9.40   | 8.38   | 3.00   |
| DS 3316  | 2    | 12.95  | 9.40   | 8.38   | 5.21   |
| DS 3340  | 2    | 12.95  | 9.40   | 8.38   | 11.43  |
| DS 5022  | 2    | 18.51  | 15.24  | 12.70  | 7.11   |



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## UNSHIELDED SMD POWER INDUCTORS / DS TYPE

### ELECTRICAL CHARACTERISTICS FOR DS1608

| Part No.     | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|------------------|---------|
| DS1608-1R0 □ | 1.0             | 0.063            | 5.00    |
| DS1608-2R2 □ | 2.2             | 0.070            | 3.90    |
| DS1608-3R3 □ | 3.3             | 0.080            | 3.00    |
| DS1608-4R7 □ | 4.7             | 0.100            | 2.50    |
| DS1608-6R8 □ | 6.8             | 0.138            | 2.20    |
| DS1608-8R2 □ | 8.2             | 0.149            | 2.00    |
| DS1608-100 □ | 10              | 0.160            | 1.70    |
| DS1608-150 □ | 15              | 0.230            | 1.40    |
| DS1608-220 □ | 22              | 0.400            | 1.10    |
| DS1608-270 □ | 27              | 0.420            | 1.05    |
| DS1608-330 □ | 33              | 0.510            | 0.90    |
| DS1608-470 □ | 47              | 0.750            | 0.70    |
| DS1608-680 □ | 68              | 0.800            | 0.65    |
| DS1608-101 □ | 100             | 1.270            | 0.55    |
| DS1608-181 □ | 180             | 2.500            | 0.40    |
| DS1608-221 □ | 220             | 3.100            | 0.30    |
| DS1608-331 □ | 330             | 4.200            | 0.20    |
| DS1608-471 □ | 470             | 9.580            | 0.15    |
| DS1608-681 □ | 680             | 9.600            | 0.13    |
| DS1608-102 □ | 1000            | 12.000           | 0.10    |

### ELECTRICAL CHARACTERISTICS FOR DS3308

| Part No.     | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|------------------|---------|
| DS3308-4R7 □ | 4.7             | 0.060            | 4.40    |
| DS3308-6R8 □ | 6.8             | 0.070            | 3.70    |
| DS3308-100 □ | 10              | 0.080            | 2.65    |
| DS3308-150 □ | 15              | 0.150            | 2.30    |
| DS3308-220 □ | 22              | 0.180            | 2.00    |
| DS3308-330 □ | 33              | 0.300            | 1.60    |
| DS3308-470 □ | 47              | 0.400            | 1.42    |
| DS3308-680 □ | 68              | 0.660            | 1.10    |
| DS3308-101 □ | 100             | 0.840            | 0.90    |
| DS3308-151 □ | 150             | 1.200            | 0.83    |
| DS3308-221 □ | 220             | 1.900            | 0.65    |
| DS3308-681 □ | 680             | 3.050            | 0.30    |
| DS3308-102 □ | 1000            | 5.200            | 0.20    |



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## UNSHIELDED SMD POWER INDUCTORS / DS TYPE

### ELECTRICAL CHARACTERISTICS FOR DS3316

| Part No.     | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|------------------|---------|
| DS3316-1R0 □ | 1.0             | 0.007            | 15.00   |
| DS3316-2R2 □ | 2.2             | 0.020            | 12.10   |
| DS3316-3R3 □ | 3.3             | 0.021            | 9.00    |
| DS3316-4R7 □ | 4.7             | 0.023            | 8.00    |
| DS3316-6R8 □ | 6.8             | 0.045            | 6.40    |
| DS3316-100 □ | 10              | 0.050            | 5.60    |
| DS3316-150 □ | 15              | 0.065            | 5.00    |
| DS3316-180 □ | 18              | 0.070            | 4.00    |
| DS3316-220 □ | 22              | 0.085            | 3.60    |
| DS3316-330 □ | 33              | 0.100            | 3.20    |
| DS3316-470 □ | 47              | 0.140            | 2.30    |
| DS3316-680 □ | 68              | 0.200            | 2.00    |
| DS3316-101 □ | 100             | 0.280            | 1.50    |
| DS3316-151 □ | 150             | 0.400            | 1.40    |
| DS3316-221 □ | 220             | 0.610            | 1.00    |
| DS3316-331 □ | 330             | 1.020            | 0.95    |
| DS3316-471 □ | 470             | 1.400            | 0.50    |
| DS3316-681 □ | 680             | 2.000            | 0.40    |
| DS3316-102 □ | 1000            | 3.500            | 0.30    |

### ELECTRICAL CHARACTERISTICS FOR DS3340

| Part No.     | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|------------------|---------|
| DS3340-1R0 □ | 1.0             | 0.007            | 20.00   |
| DS3340-2R2 □ | 2.2             | 0.016            | 19.50   |
| DS3340-3R3 □ | 3.3             | 0.018            | 19.00   |
| DS3340-4R7 □ | 4.7             | 0.020            | 18.00   |
| DS3340-6R8 □ | 6.8             | 0.040            | 11.00   |
| DS3340-100 □ | 10              | 0.045            | 10.50   |
| DS3340-150 □ | 15              | 0.055            | 10.00   |
| DS3340-220 □ | 22              | 0.070            | 8.50    |
| DS3340-330 □ | 33              | 0.080            | 7.30    |
| DS3340-470 □ | 47              | 0.100            | 6.00    |
| DS3340-680 □ | 68              | 0.170            | 4.80    |
| DS3340-101 □ | 100             | 0.220            | 3.20    |
| DS3340-151 □ | 150             | 0.340            | 3.00    |
| DS3340-221 □ | 220             | 0.440            | 2.60    |



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## UNSHIELDED SMD POWER INDUCTORS / DS TYPE

### ELECTRICAL CHARACTERISTICS FOR DS3340

| Part No.     | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|------------------|---------|
| DS3340-331 □ | 330             | 0.700            | 2.00    |
| DS3340-471 □ | 470             | 0.950            | 1.20    |
| DS3340-681 □ | 680             | 1.000            | 1.10    |
| DS3340-821 □ | 820             | 1.630            | 1.00    |
| DS3340-102 □ | 1000            | 2.600            | 0.50    |

### ELECTRICAL CHARACTERISTICS FOR DS5022

| Part No.     | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|--------------|-----------------|------------------|---------|
| DS5022-1R0 □ | 1.0             | 0.008            | 20.00   |
| DS5022-2R2 □ | 2.2             | 0.020            | 19.00   |
| DS5022-3R3 □ | 3.3             | 0.025            | 18.00   |
| DS5022-5R6 □ | 5.6             | 0.030            | 16.00   |
| DS5022-100 □ | 10              | 0.032            | 14.50   |
| DS5022-150 □ | 15              | 0.036            | 12.00   |
| DS5022-220 □ | 22              | 0.047            | 10.00   |
| DS5022-330 □ | 33              | 0.070            | 9.00    |
| DS5022-470 □ | 47              | 0.077            | 7.00    |
| DS5022-680 □ | 68              | 0.120            | 6.00    |
| DS5022-101 □ | 100             | 0.190            | 5.00    |
| DS5022-151 □ | 150             | 0.250            | 4.00    |
| DS5022-221 □ | 220             | 0.380            | 3.00    |
| DS5022-331 □ | 330             | 0.560            | 2.50    |
| DS5022-471 □ | 470             | 0.850            | 2.20    |
| DS5022-681 □ | 680             | 0.910            | 1.60    |
| DS5022-102 □ | 1000            | 2.500            | 1.00    |
| DS5022-222 □ | 2200            | 3.300            | 0.40    |

\* 100uH 以上 Test Frequency : 1KHZ/1V

\* 100uH 以下 Test Frequency : 100KHZ/0.1V



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# UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

## FEATURES

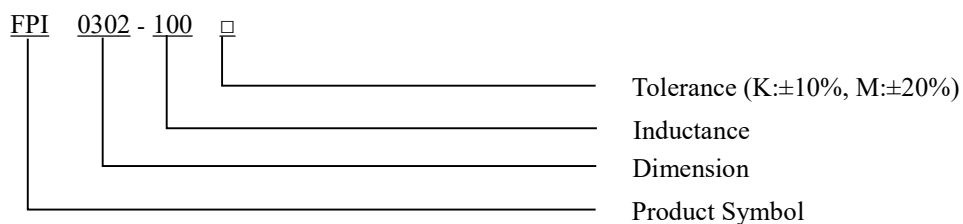
- ◆ Silver Plated Type
- ◆ High power and high saturation
- ◆ Ideal inductors for DC/DC conversion



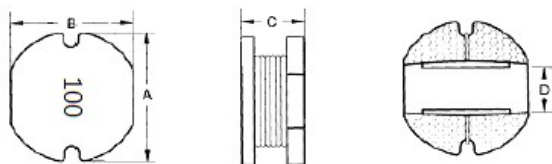
## APPLICATIONS

- ◆ Smart home devices.
- ◆ DC/DC converter devices.
- ◆ Various categories of consumer electronics.

## ORDERING CODE



## SHAPES



## DIMENSIONS (UNIT: mm)

| Part No. | A          | B          | C         | D (Ref.) |
|----------|------------|------------|-----------|----------|
| FPI 0311 | 3.3 ± 0.3  | 3.0 ± 0.3  | 1.1 ± 0.3 | 1.0      |
| FPI 0315 | 3.3 ± 0.3  | 3.0 ± 0.3  | 1.5 ± 0.3 | 1.0      |
| FPI 0302 | 3.3 ± 0.3  | 3.0 ± 0.3  | 2.1 ± 0.3 | 1.0      |
| FPI 0402 | 4.5 ± 0.3  | 4.0 ± 0.3  | 2.1 ± 0.3 | 1.3      |
| FPI 0403 | 4.5 ± 0.3  | 4.0 ± 0.3  | 3.2 ± 0.3 | 1.3      |
| FPI 0519 | 5.8 ± 0.3  | 5.2 ± 0.3  | 2.1 ± 0.3 | 1.3      |
| FPI 0502 | 5.8 ± 0.3  | 5.2 ± 0.3  | 2.5 ± 0.3 | 1.3      |
| FPI 0503 | 5.8 ± 0.3  | 5.2 ± 0.3  | 3.0 ± 0.5 | 1.3      |
| FPI 0504 | 5.8 ± 0.3  | 5.2 ± 0.3  | 4.5 ± 0.3 | 1.3      |
| FPI 0703 | 7.8 ± 0.3  | 7.0 ± 0.3  | 3.5 ± 0.3 | 2.1      |
| FPI 0705 | 7.8 ± 0.3  | 7.0 ± 0.3  | 5.0 ± 0.3 | 2.1      |
| FPI 0706 | 7.8 ± 0.3  | 7.0 ± 0.3  | 6.2 ± 0.3 | 2.6      |
| FPI 0707 | 7.8 ± 0.3  | 7.0 ± 0.3  | 7.0 ± 0.3 | 2.6      |
| FPI 1004 | 10.0 ± 0.3 | 9.0 ± 0.3  | 4.0 ± 0.3 | 3.1      |
| FPI 1005 | 10.0 ± 0.4 | 9.0 ± 0.4  | 5.4 ± 0.3 | 3.1      |
| FPI 1006 | 10.0 ± 0.4 | 9.0 ± 0.4  | 6.5 ± 0.3 | 3.1      |
| FPI 1008 | 10.0 ± 0.4 | 9.0 ± 0.4  | 8.2 ± 0.3 | 3.1      |
| FPI 1206 | 13.0 ± 0.5 | 13.0 ± 0.5 | 7.0 ± 0.3 | 4.5      |



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## UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

### ELECTRICAL CHARACTERISTICS FOR FPI0311

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) MAX | IDC (A) MAX |
|---------------|-----------------|----------------------|-------------|
| FPI0311-1R0 □ | 1.0             | 0.060                | 2.00        |
| FPI0311-2R2 □ | 2.2             | 0.130                | 1.70        |
| FPI0311-2R7 □ | 2.7             | 0.150                | 1.35        |
| FPI0311-3R3 □ | 3.3             | 0.170                | 1.25        |
| FPI0311-4R7 □ | 4.7             | 0.300                | 1.20        |
| FPI0311-6R8 □ | 6.8             | 0.420                | 1.00        |
| FPI0311-100 □ | 10              | 0.800                | 0.82        |
| FPI0311-220 □ | 22              | 1.500                | 0.60        |
| FPI0311-330 □ | 33              | 1.550                | 0.45        |

### ELECTRICAL CHARACTERISTICS FOR FPI0315

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0315-1R0 □ | 1.0             | 0.060            | 3.20    |
| FPI0315-2R2 □ | 2.2             | 0.100            | 2.20    |
| FPI0315-3R3 □ | 3.3             | 0.150            | 1.80    |
| FPI0315-4R7 □ | 4.7             | 0.170            | 1.55    |
| FPI0315-5R6 □ | 5.6             | 0.210            | 1.30    |
| FPI0315-6R8 □ | 6.8             | 0.230            | 1.10    |
| FPI0315-8R2 □ | 8.2             | 0.260            | 1.00    |
| FPI0315-100 □ | 10              | 0.300            | 0.90    |
| FPI0315-150 □ | 15              | 0.560            | 0.80    |
| FPI0315-470 □ | 47              | 1.500            | 0.50    |
| FPI0315-101 □ | 100             | 3.100            | 0.30    |

### ELECTRICAL CHARACTERISTICS FOR FPI0302

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0302-1R0 □ | 1.0             | 0.054            | 4.00    |
| FPI0302-2R2 □ | 2.2             | 0.120            | 2.50    |
| FPI0302-3R3 □ | 3.3             | 0.160            | 2.30    |
| FPI0302-4R7 □ | 4.7             | 0.200            | 2.20    |
| FPI0302-5R6 □ | 5.6             | 0.210            | 1.70    |
| FPI0302-6R8 □ | 6.8             | 0.350            | 1.50    |
| FPI0302-8R2 □ | 8.2             | 0.290            | 1.45    |
| FPI0302-100 □ | 10              | 0.360            | 1.40    |
| FPI0302-120 □ | 12              | 0.387            | 1.20    |
| FPI0302-150 □ | 15              | 0.450            | 1.13    |
| FPI0302-180 □ | 18              | 0.490            | 0.90    |
| FPI0302-220 □ | 22              | 0.600            | 0.85    |
| FPI0302-270 □ | 27              | 0.750            | 0.80    |
| FPI0302-330 □ | 33              | 1.550            | 0.75    |
| FPI0302-390 □ | 39              | 2.150            | 0.70    |



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## UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

### ELECTRICAL CHARACTERISTICS FOR FPI0302

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0302-470 □ | 47              | 2.300            | 0.65    |
| FPI0302-560 □ | 56              | 2.450            | 0.60    |
| FPI0302-680 □ | 68              | 2.500            | 0.50    |
| FPI0302-820 □ | 82              | 2.700            | 0.40    |
| FPI0302-101 □ | 100             | 3.000            | 0.35    |
| FPI0302-121 □ | 120             | 3.200            | 0.30    |
| FPI0302-151 □ | 150             | 3.600            | 0.28    |
| FPI0302-181 □ | 180             | 5.780            | 0.26    |
| FPI0302-221 □ | 220             | 7.000            | 0.25    |
| FPI0302-271 □ | 270             | 7.580            | 0.24    |
| FPI0302-331 □ | 330             | 8.450            | 0.23    |
| FPI0302-391 □ | 390             | 9.480            | 0.22    |
| FPI0302-471 □ | 470             | 10.800           | 0.21    |
| FPI0302-561 □ | 560             | 17.000           | 0.12    |
| FPI0302-102 □ | 1000            | 34.500           | 0.11    |

### ELECTRICAL CHARACTERISTICS FOR FPI0402

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0402-1R0 □ | 1.0             | 0.020            | 5.40    |
| FPI0402-1R5 □ | 1.5             | 0.025            | 4.57    |
| FPI0402-2R2 □ | 2.2             | 0.036            | 3.50    |
| FPI0402-3R3 □ | 3.3             | 0.051            | 2.80    |
| FPI0402-4R7 □ | 4.7             | 0.063            | 2.60    |
| FPI0402-6R8 □ | 6.8             | 0.108            | 2.05    |
| FPI0402-100 □ | 10              | 0.140            | 1.70    |
| FPI0402-150 □ | 15              | 0.230            | 1.35    |
| FPI0402-220 □ | 22              | 0.360            | 1.17    |
| FPI0402-330 □ | 33              | 0.530            | 0.94    |
| FPI0402-470 □ | 47              | 0.760            | 0.79    |
| FPI0402-680 □ | 68              | 0.860            | 0.65    |
| FPI0402-101 □ | 100             | 1.310            | 0.54    |



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**UNSHIELDED SMD POWER INDUCTORS / FPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR FPI0403**

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0403-1R0 □ | 1.0             | 0.049            | 4.50    |
| FPI0403-2R2 □ | 2.2             | 0.065            | 3.70    |
| FPI0403-3R3 □ | 3.3             | 0.087            | 3.00    |
| FPI0403-4R7 □ | 4.7             | 0.094            | 2.40    |
| FPI0403-5R6 □ | 5.6             | 0.150            | 2.20    |
| FPI0403-6R8 □ | 6.8             | 0.160            | 1.90    |
| FPI0403-8R2 □ | 8.2             | 0.170            | 1.80    |
| FPI0403-100 □ | 10              | 0.182            | 1.50    |
| FPI0403-120 □ | 12              | 0.210            | 1.40    |
| FPI0403-150 □ | 15              | 0.235            | 1.30    |
| FPI0403-180 □ | 18              | 0.340            | 1.20    |
| FPI0403-220 □ | 22              | 0.450            | 1.00    |
| FPI0403-270 □ | 27              | 0.520            | 0.90    |
| FPI0403-330 □ | 33              | 0.600            | 0.85    |
| FPI0403-390 □ | 39              | 0.680            | 0.80    |
| FPI0403-470 □ | 47              | 0.770            | 0.70    |
| FPI0403-560 □ | 56              | 0.830            | 0.58    |
| FPI0403-680 □ | 68              | 1.030            | 0.55    |
| FPI0403-820 □ | 82              | 1.220            | 0.50    |
| FPI0403-101 □ | 100             | 1.340            | 0.48    |
| FPI0403-121 □ | 120             | 1.460            | 0.45    |
| FPI0403-151 □ | 150             | 1.850            | 0.40    |
| FPI0403-181 □ | 180             | 2.180            | 0.35    |
| FPI0403-221 □ | 220             | 3.530            | 0.33    |
| FPI0403-271 □ | 270             | 3.840            | 0.30    |
| FPI0403-331 □ | 330             | 4.200            | 0.25    |
| FPI0403-391 □ | 390             | 4.300            | 0.23    |
| FPI0403-471 □ | 470             | 7.000            | 0.20    |
| FPI0403-561 □ | 560             | 8.500            | 0.18    |
| FPI0403-102 □ | 1000            | 15.000           | 0.16    |



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## UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

### ELECTRICAL CHARACTERISTICS FOR FPI0519

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0519-1R0 □ | 1.0             | 0.035            | 5.70    |
| FPI0519-2R2 □ | 2.2             | 0.062            | 4.20    |
| FPI0519-3R9 □ | 3.9             | 0.073            | 3.30    |
| FPI0519-4R7 □ | 4.7             | 0.080            | 2.50    |
| FPI0519-6R8 □ | 6.8             | 0.160            | 2.40    |
| FPI0519-100 □ | 10              | 0.180            | 1.80    |
| FPI0519-220 □ | 22              | 0.450            | 1.20    |
| FPI0519-470 □ | 47              | 0.750            | 0.80    |
| FPI0519-560 □ | 56              | 0.800            | 0.60    |
| FPI0519-680 □ | 68              | 1.150            | 0.55    |
| FPI0519-101 □ | 100             | 1.500            | 0.50    |
| FPI0519-151 □ | 150             | 2.000            | 0.45    |
| FPI0519-181 □ | 180             | 2.500            | 0.40    |

### ELECTRICAL CHARACTERISTICS FOR FPI0502

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0502-1R5 □ | 1.5             | 0.048            | 5.50    |
| FPI0502-2R2 □ | 2.2             | 0.060            | 5.00    |
| FPI0502-3R3 □ | 3.3             | 0.070            | 3.60    |
| FPI0502-4R7 □ | 4.7             | 0.075            | 2.80    |
| FPI0502-5R6 □ | 5.6             | 0.150            | 2.70    |
| FPI0502-6R8 □ | 6.8             | 0.160            | 2.50    |
| FPI0502-100 □ | 10              | 0.180            | 2.10    |
| FPI0502-150 □ | 15              | 0.220            | 1.90    |
| FPI0502-220 □ | 22              | 0.390            | 1.25    |
| FPI0502-330 □ | 33              | 0.430            | 1.05    |
| FPI0502-470 □ | 47              | 0.720            | 1.00    |
| FPI0502-560 □ | 56              | 0.800            | 0.75    |
| FPI0502-680 □ | 68              | 1.000            | 0.70    |
| FPI0502-820 □ | 82              | 1.200            | 0.70    |
| FPI0502-101 □ | 100             | 1.300            | 0.68    |
| FPI0502-151 □ | 150             | 1.810            | 0.55    |
| FPI0502-221 □ | 220             | 3.500            | 0.46    |
| FPI0502-331 □ | 330             | 4.000            | 0.40    |
| FPI0502-471 □ | 470             | 5.000            | 0.35    |
| FPI0502-561 □ | 560             | 5.900            | 0.32    |
| FPI0502-681 □ | 680             | 8.000            | 0.20    |



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**UNSHIELDED SMD POWER INDUCTORS / FPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR FPI0503**

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0503-1R0 □ | 1.0             | 0.030            | 10.00   |
| FPI0503-2R2 □ | 2.2             | 0.040            | 5.10    |
| FPI0503-2R7 □ | 2.7             | 0.050            | 4.80    |
| FPI0503-3R3 □ | 3.3             | 0.065            | 4.00    |
| FPI0503-4R7 □ | 4.7             | 0.070            | 2.90    |
| FPI0503-5R6 □ | 5.6             | 0.090            | 2.80    |
| FPI0503-6R8 □ | 6.8             | 0.092            | 2.60    |
| FPI0503-8R2 □ | 8.2             | 0.095            | 2.40    |
| FPI0503-100 □ | 10              | 0.170            | 2.20    |
| FPI0503-120 □ | 12              | 0.180            | 2.10    |
| FPI0503-150 □ | 15              | 0.200            | 2.00    |
| FPI0503-180 □ | 18              | 0.210            | 1.70    |
| FPI0503-220 □ | 22              | 0.300            | 1.50    |
| FPI0503-270 □ | 27              | 0.315            | 1.30    |
| FPI0503-330 □ | 33              | 0.380            | 1.10    |
| FPI0503-390 □ | 39              | 0.400            | 0.95    |
| FPI0503-470 □ | 47              | 0.500            | 0.90    |
| FPI0503-560 □ | 56              | 0.700            | 0.80    |
| FPI0503-680 □ | 68              | 1.000            | 0.75    |
| FPI0503-820 □ | 82              | 1.050            | 0.73    |
| FPI0503-101 □ | 100             | 1.100            | 0.70    |
| FPI0503-121 □ | 120             | 1.200            | 0.63    |
| FPI0503-151 □ | 150             | 1.500            | 0.56    |
| FPI0503-181 □ | 180             | 1.800            | 0.53    |
| FPI0503-221 □ | 220             | 2.500            | 0.48    |
| FPI0503-271 □ | 270             | 2.600            | 0.43    |
| FPI0503-331 □ | 330             | 3.000            | 0.38    |
| FPI0503-471 □ | 470             | 3.800            | 0.37    |
| FPI0503-561 □ | 560             | 4.700            | 0.33    |
| FPI0503-102 □ | 1000            | 8.000            | 0.26    |



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**UNSHIELDED SMD POWER INDUCTORS / FPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR FPI0504**

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0504-1R0 □ | 1.0             | 0.020            | 7.70    |
| FPI0504-1R5 □ | 1.5             | 0.025            | 6.00    |
| FPI0504-2R2 □ | 2.2             | 0.035            | 5.20    |
| FPI0504-2R7 □ | 2.7             | 0.045            | 5.00    |
| FPI0504-3R3 □ | 3.3             | 0.050            | 4.20    |
| FPI0504-3R9 □ | 3.9             | 0.055            | 4.00    |
| FPI0504-4R7 □ | 4.7             | 0.060            | 3.00    |
| FPI0504-5R6 □ | 5.6             | 0.065            | 2.90    |
| FPI0504-6R8 □ | 6.8             | 0.068            | 2.70    |
| FPI0504-8R2 □ | 8.2             | 0.070            | 2.50    |
| FPI0504-100 □ | 10              | 0.100            | 2.30    |
| FPI0504-120 □ | 12              | 0.120            | 2.20    |
| FPI0504-150 □ | 15              | 0.140            | 2.10    |
| FPI0504-180 □ | 18              | 0.150            | 2.00    |
| FPI0504-220 □ | 22              | 0.180            | 1.50    |
| FPI0504-270 □ | 27              | 0.200            | 1.40    |
| FPI0504-330 □ | 33              | 0.230            | 1.20    |
| FPI0504-390 □ | 39              | 0.300            | 1.10    |
| FPI0504-470 □ | 47              | 0.310            | 1.00    |
| FPI0504-560 □ | 56              | 0.420            | 0.85    |
| FPI0504-680 □ | 68              | 0.460            | 0.80    |
| FPI0504-820 □ | 82              | 0.600            | 0.77    |
| FPI0504-101 □ | 100             | 0.700            | 0.70    |
| FPI0504-121 □ | 120             | 0.930            | 0.65    |
| FPI0504-151 □ | 150             | 1.100            | 0.58    |
| FPI0504-181 □ | 180             | 1.350            | 0.55    |
| FPI0504-221 □ | 220             | 1.570            | 0.50    |
| FPI0504-271 □ | 270             | 1.850            | 0.47    |
| FPI0504-331 □ | 330             | 2.000            | 0.45    |
| FPI0504-391 □ | 390             | 2.200            | 0.42    |
| FPI0504-471 □ | 470             | 3.000            | 0.40    |
| FPI0504-561 □ | 560             | 3.000            | 0.35    |
| FPI0504-681 □ | 680             | 4.000            | 0.33    |
| FPI0504-821 □ | 820             | 4.400            | 0.30    |
| FPI0504-102 □ | 1000            | 5.000            | 0.28    |



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**UNSHIELDED SMD POWER INDUCTORS / FPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR FPI0703**

| Part No.             | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|----------------------|-----------------|------------------|---------|
| <b>FPI0703-1R0</b> □ | 1.0             | 0.020            | 11.00   |
| <b>FPI0703-1R5</b> □ | 1.5             | 0.025            | 8.00    |
| <b>FPI0703-2R2</b> □ | 2.2             | 0.030            | 6.50    |
| <b>FPI0703-3R3</b> □ | 3.3             | 0.040            | 5.60    |
| <b>FPI0703-4R7</b> □ | 4.7             | 0.045            | 4.50    |
| <b>FPI0703-5R6</b> □ | 5.6             | 0.050            | 4.00    |
| <b>FPI0703-6R8</b> □ | 6.8             | 0.065            | 3.70    |
| <b>FPI0703-100</b> □ | 10              | 0.080            | 3.40    |
| <b>FPI0703-150</b> □ | 15              | 0.100            | 3.00    |
| <b>FPI0703-220</b> □ | 22              | 0.130            | 2.20    |
| <b>FPI0703-330</b> □ | 33              | 0.170            | 2.00    |
| <b>FPI0703-470</b> □ | 47              | 0.250            | 1.40    |
| <b>FPI0703-560</b> □ | 56              | 0.300            | 1.30    |
| <b>FPI0703-680</b> □ | 68              | 0.330            | 1.20    |
| <b>FPI0703-101</b> □ | 100             | 0.480            | 0.95    |
| <b>FPI0703-151</b> □ | 150             | 0.750            | 0.85    |
| <b>FPI0703-181</b> □ | 180             | 1.020            | 0.80    |
| <b>FPI0703-221</b> □ | 220             | 1.200            | 0.70    |
| <b>FPI0703-331</b> □ | 330             | 1.500            | 0.52    |
| <b>FPI0703-471</b> □ | 470             | 2.400            | 0.42    |
| <b>FPI0703-561</b> □ | 560             | 2.700            | 0.37    |
| <b>FPI0703-102</b> □ | 1000            | 4.000            | 0.29    |



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**UNSHIELDED SMD POWER INDUCTORS / FPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR FPI0705**

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0705-1R0 □ | 1.0             | 0.020            | 12.00   |
| FPI0705-1R5 □ | 1.5             | 0.024            | 8.40    |
| FPI0705-2R2 □ | 2.2             | 0.028            | 6.80    |
| FPI0705-3R3 □ | 3.3             | 0.031            | 6.50    |
| FPI0705-3R9 □ | 3.9             | 0.033            | 6.00    |
| FPI0705-4R7 □ | 4.7             | 0.035            | 5.50    |
| FPI0705-5R6 □ | 5.6             | 0.037            | 5.20    |
| FPI0705-6R8 □ | 6.8             | 0.040            | 4.90    |
| FPI0705-8R2 □ | 8.2             | 0.050            | 3.80    |
| FPI0705-100 □ | 10              | 0.070            | 3.50    |
| FPI0705-120 □ | 12              | 0.080            | 3.30    |
| FPI0705-150 □ | 15              | 0.090            | 3.10    |
| FPI0705-180 □ | 18              | 0.100            | 2.90    |
| FPI0705-220 □ | 22              | 0.130            | 2.30    |
| FPI0705-270 □ | 27              | 0.140            | 2.20    |
| FPI0705-330 □ | 33              | 0.150            | 2.10    |
| FPI0705-470 □ | 47              | 0.180            | 1.80    |
| FPI0705-560 □ | 56              | 0.240            | 1.55    |
| FPI0705-680 □ | 68              | 0.280            | 1.40    |
| FPI0705-820 □ | 82              | 0.370            | 1.20    |
| FPI0705-101 □ | 100             | 0.430            | 1.10    |
| FPI0705-121 □ | 120             | 0.470            | 1.00    |
| FPI0705-151 □ | 150             | 0.640            | 0.95    |
| FPI0705-181 □ | 180             | 0.710            | 0.85    |
| FPI0705-221 □ | 220             | 0.960            | 0.80    |
| FPI0705-271 □ | 270             | 1.110            | 0.70    |
| FPI0705-331 □ | 330             | 1.260            | 0.60    |
| FPI0705-471 □ | 470             | 1.600            | 0.50    |
| FPI0705-561 □ | 560             | 1.800            | 0.43    |
| FPI0705-681 □ | 680             | 2.000            | 0.40    |
| FPI0705-821 □ | 820             | 2.570            | 0.37    |
| FPI0705-102 □ | 1000            | 4.000            | 0.35    |



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## UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

### ELECTRICAL CHARACTERISTICS FOR FPI0706

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0706-470 □ | 47              | 1.850            | 2.20    |
| FPI0706-151 □ | 150             | 1.900            | 1.10    |
| FPI0706-821 □ | 820             | 3.000            | 0.49    |
| FPI0706-102 □ | 1000            | 3.900            | 0.45    |
| FPI0706-152 □ | 1500            | 5.800            | 0.39    |

### ELECTRICAL CHARACTERISTICS FOR FPI0707

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI0707-330 □ | 33              | 0.140            | 3.00    |
| FPI0707-470 □ | 47              | 0.170            | 2.50    |
| FPI0707-151 □ | 150             | 0.600            | 1.30    |
| FPI0707-221 □ | 220             | 0.800            | 1.10    |
| FPI0707-801 □ | 800             | 2.600            | 0.54    |
| FPI0707-102 □ | 1000            | 3.800            | 0.44    |
| FPI0707-122 □ | 1200            | 4.300            | 0.40    |
| FPI0707-152 □ | 1500            | 5.200            | 0.32    |

### ELECTRICAL CHARACTERISTICS FOR FPI1004

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI1004-1R2 □ | 1.2             | 0.022            | 9.00    |
| FPI1004-6R8 □ | 6.8             | 0.040            | 5.00    |
| FPI1004-100 □ | 10              | 0.065            | 3.80    |
| FPI1004-150 □ | 15              | 0.080            | 3.20    |
| FPI1004-180 □ | 18              | 0.090            | 3.10    |
| FPI1004-220 □ | 22              | 0.110            | 3.00    |
| FPI1004-270 □ | 27              | 0.120            | 2.50    |
| FPI1004-330 □ | 33              | 0.140            | 2.10    |
| FPI1004-390 □ | 39              | 0.150            | 2.00    |
| FPI1004-470 □ | 47              | 0.170            | 1.80    |
| FPI1004-680 □ | 68              | 0.260            | 1.50    |
| FPI1004-101 □ | 100             | 0.320            | 1.40    |
| FPI1004-221 □ | 220             | 0.770            | 0.80    |
| FPI1004-331 □ | 330             | 1.150            | 0.95    |
| FPI1004-471 □ | 470             | 1.600            | 0.55    |
| FPI1004-561 □ | 560             | 1.700            | 0.50    |
| FPI1004-102 □ | 1000            | 3.500            | 0.45    |



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**UNSHIELDED SMD POWER INDUCTORS / FPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR FPI1005**

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI1005-1R0 □ | 1.0             | 0.020            | 16.00   |
| FPI1005-2R2 □ | 2.2             | 0.023            | 10.20   |
| FPI1005-3R3 □ | 3.3             | 0.031            | 8.00    |
| FPI1005-4R7 □ | 4.7             | 0.033            | 6.30    |
| FPI1005-5R6 □ | 5.6             | 0.034            | 5.90    |
| FPI1005-6R8 □ | 6.8             | 0.038            | 5.50    |
| FPI1005-8R2 □ | 8.2             | 0.040            | 5.20    |
| FPI1005-100 □ | 10              | 0.060            | 5.00    |
| FPI1005-150 □ | 15              | 0.080            | 4.00    |
| FPI1005-180 □ | 18              | 0.090            | 3.40    |
| FPI1005-220 □ | 22              | 0.100            | 3.00    |
| FPI1005-330 □ | 33              | 0.120            | 2.80    |
| FPI1005-390 □ | 39              | 0.150            | 2.30    |
| FPI1005-470 □ | 47              | 0.170            | 2.20    |
| FPI1005-560 □ | 56              | 0.190            | 2.00    |
| FPI1005-680 □ | 68              | 0.220            | 1.80    |
| FPI1005-820 □ | 82              | 0.250            | 1.70    |
| FPI1005-101 □ | 100             | 0.300            | 1.60    |
| FPI1005-121 □ | 120             | 0.400            | 1.55    |
| FPI1005-151 □ | 150             | 0.470            | 1.45    |
| FPI1005-181 □ | 180             | 0.630            | 1.35    |
| FPI1005-221 □ | 220             | 0.730            | 1.00    |
| FPI1005-331 □ | 330             | 1.150            | 0.68    |
| FPI1005-471 □ | 470             | 1.480            | 0.57    |
| FPI1005-561 □ | 560             | 1.500            | 0.53    |
| FPI1005-681 □ | 680             | 1.600            | 0.50    |
| FPI1005-821 □ | 820             | 2.000            | 0.38    |
| FPI1005-102 □ | 1000            | 3.800            | 0.20    |



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## UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

### ELECTRICAL CHARACTERISTICS FOR FPI1006

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI1006-1R5 □ | 1.5             | 0.020            | 20.00   |
| FPI1006-3R3 □ | 3.3             | 0.030            | 15.00   |
| FPI1006-100 □ | 10              | 0.050            | 9.20    |
| FPI1006-150 □ | 15              | 0.070            | 7.00    |
| FPI1006-220 □ | 22              | 0.075            | 6.20    |
| FPI1006-330 □ | 33              | 0.090            | 4.50    |
| FPI1006-390 □ | 39              | 0.100            | 3.80    |
| FPI1006-470 □ | 47              | 0.130            | 2.40    |
| FPI1006-560 □ | 56              | 0.140            | 2.00    |
| FPI1006-680 □ | 68              | 0.200            | 1.75    |
| FPI1006-101 □ | 100             | 0.218            | 1.70    |
| FPI1006-121 □ | 120             | 0.280            | 1.60    |
| FPI1006-151 □ | 150             | 0.330            | 1.50    |
| FPI1006-221 □ | 220             | 0.600            | 1.40    |
| FPI1006-331 □ | 330             | 0.750            | 1.30    |
| FPI1006-471 □ | 470             | 1.100            | 1.20    |
| FPI1006-102 □ | 1000            | 3.500            | 0.45    |



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**UNSHIELDED SMD POWER INDUCTORS / FPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR FPI1008**

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI1008-6R8 □ | 6.8             | 0.026            | 8.00    |
| FPI1008-100 □ | 10              | 0.036            | 7.50    |
| FPI1008-220 □ | 22              | 0.055            | 4.70    |
| FPI1008-330 □ | 33              | 0.082            | 3.80    |
| FPI1008-470 □ | 47              | 0.100            | 3.20    |
| FPI1008-560 □ | 56              | 0.120            | 3.06    |
| FPI1008-680 □ | 68              | 0.150            | 2.70    |
| FPI1008-820 □ | 82              | 0.180            | 2.45    |
| FPI1008-101 □ | 100             | 0.200            | 2.00    |
| FPI1008-151 □ | 150             | 0.325            | 1.80    |
| FPI1008-221 □ | 220             | 0.450            | 1.50    |
| FPI1008-331 □ | 330             | 0.640            | 1.24    |
| FPI1008-471 □ | 470             | 0.950            | 1.02    |
| FPI1008-561 □ | 560             | 1.200            | 0.99    |
| FPI1008-681 □ | 680             | 1.330            | 0.84    |
| FPI1008-821 □ | 820             | 1.660            | 0.79    |
| FPI1008-102 □ | 1000            | 1.980            | 0.76    |
| FPI1008-122 □ | 1200            | 2.440            | 0.70    |
| FPI1008-152 □ | 1500            | 2.990            | 0.65    |
| FPI1008-202 □ | 2000            | 4.290            | 0.50    |
| FPI1008-302 □ | 3000            | 6.000            | 0.45    |
| FPI1008-402 □ | 4000            | 8.060            | 0.40    |
| FPI1008-442 □ | 4400            | 8.300            | 0.32    |
| FPI1008-104 □ | 100000          | 182.0            | 0.05    |



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**UNSHIELDED SMD POWER INDUCTORS / FPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR FPI1206**

| Part No.      | Inductance (uH) | RDC ( $\Omega$ ) | IDC (A) |
|---------------|-----------------|------------------|---------|
| FPI1206-1R5 □ | 1.5             | 0.005            | 22.00   |
| FPI1206-2R2 □ | 2.2             | 0.008            | 20.00   |
| FPI1206-3R3 □ | 3.3             | 0.009            | 17.00   |
| FPI1206-4R7 □ | 4.7             | 0.012            | 15.00   |
| FPI1206-5R6 □ | 5.6             | 0.015            | 13.00   |
| FPI1206-6R8 □ | 6.8             | 0.017            | 11.50   |
| FPI1206-8R2 □ | 8.2             | 0.019            | 10.80   |
| FPI1206-100 □ | 10              | 0.023            | 10.20   |
| FPI1206-150 □ | 15              | 0.034            | 8.00    |
| FPI1206-180 □ | 18              | 0.040            | 7.50    |
| FPI1206-220 □ | 22              | 0.052            | 7.00    |
| FPI1206-330 □ | 33              | 0.070            | 5.50    |
| FPI1206-470 □ | 47              | 0.082            | 4.70    |
| FPI1206-560 □ | 56              | 0.112            | 4.30    |
| FPI1206-680 □ | 68              | 0.135            | 4.00    |
| FPI1206-820 □ | 82              | 0.140            | 3.70    |
| FPI1206-101 □ | 100             | 0.180            | 3.20    |
| FPI1206-121 □ | 120             | 0.230            | 3.00    |
| FPI1206-151 □ | 150             | 0.260            | 2.70    |
| FPI1206-181 □ | 180             | 0.350            | 2.40    |
| FPI1206-221 □ | 220             | 0.380            | 2.20    |
| FPI1206-271 □ | 270             | 0.480            | 1.90    |
| FPI1206-331 □ | 330             | 0.520            | 1.70    |
| FPI1206-391 □ | 390             | 0.650            | 1.60    |
| FPI1206-471 □ | 470             | 0.800            | 1.50    |
| FPI1206-561 □ | 560             | 1.100            | 1.30    |
| FPI1206-681 □ | 680             | 1.150            | 1.20    |
| FPI1206-821 □ | 820             | 1.600            | 1.10    |
| FPI1206-102 □ | 1000            | 1.700            | 1.00    |

\* 100uH 以上 Test Frequency : 1KHZ/1V

\* 100uH 以下 Test Frequency : 2.52MHZ/1V



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## UNSHIELDED SMD POWER INDUCTORS / TPY TYPE

### FEATURES

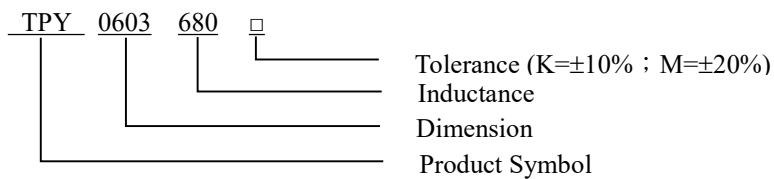
- ◆ Surface mount inductor with high current rating.
- ◆ Low resistance to keep power loss minimum.



### APPLICATIONS

- ◆ DC/DC converters, etc.
- ◆ Various categories of consumer electronics.

### ORDERING CODE



### SHAPES

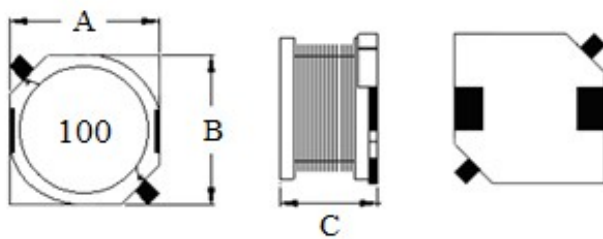


Fig 1.

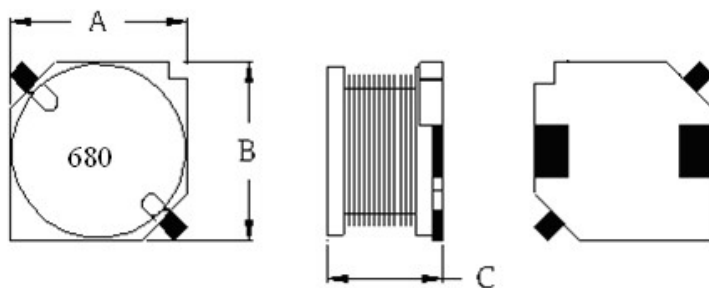


Fig 2.

### DIMENSIONS (UNIT:mm)

| Part No. | Fig. | A         | B         | C         |
|----------|------|-----------|-----------|-----------|
| TPY 0603 | 1    | 6.0 ± 0.2 | 6.0 ± 0.2 | 3.0 ± 0.2 |
| TPY 0703 | 2    | 7.0 ± 0.3 | 7.0 ± 0.3 | 3.0 ± 0.3 |
| TPY 0705 | 2    | 7.0 ± 0.3 | 7.0 ± 0.3 | 4.6 ± 0.3 |



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## UNSHIELDED SMD POWER INDUCTORS / TPY TYPE

### ELECTRICAL CHARACTERISTICS FOR TPY0603

| Part No.      | Inductance<br>( $\mu$ H) | RDC<br>( $\Omega$ ) MAX | IDC<br>(A) MAX |
|---------------|--------------------------|-------------------------|----------------|
| TPY0603-4R7 □ | 4.7                      | 0.065                   | 1.85           |
| TPY0603-6R8 □ | 6.8                      | 0.090                   | 1.55           |
| TPY0603-100 □ | 10                       | 0.115                   | 1.30           |
| TPY0603-150 □ | 15                       | 0.180                   | 1.10           |
| TPY0603-220 □ | 22                       | 0.250                   | 0.98           |
| TPY0603-330 □ | 33                       | 0.380                   | 0.83           |
| TPY0603-470 □ | 47                       | 0.430                   | 0.68           |
| TPY0603-560 □ | 56                       | 0.620                   | 0.63           |
| TPY0603-680 □ | 68                       | 0.710                   | 0.58           |
| TPY0603-820 □ | 82                       | 0.730                   | 0.48           |
| TPY0603-101 □ | 100                      | 1.050                   | 0.42           |

### ELECTRICAL CHARACTERISTICS FOR TPY0703

| Part No.      | Inductance<br>( $\mu$ H) | RDC<br>( $\Omega$ ) MAX | IDC<br>(A) MAX |
|---------------|--------------------------|-------------------------|----------------|
| TPY0703-3R3 □ | 3.3                      | 0.042                   | 2.20           |
| TPY0703-4R7 □ | 4.7                      | 0.055                   | 2.00           |
| TPY0703-6R8 □ | 6.8                      | 0.065                   | 1.60           |
| TPY0703-100 □ | 10                       | 0.080                   | 1.40           |
| TPY0703-150 □ | 15                       | 0.120                   | 1.10           |
| TPY0703-220 □ | 22                       | 0.150                   | 1.00           |
| TPY0703-330 □ | 33                       | 0.230                   | 0.85           |
| TPY0703-470 □ | 47                       | 0.310                   | 0.70           |
| TPY0703-560 □ | 56                       | 0.390                   | 0.65           |
| TPY0703-680 □ | 68                       | 0.430                   | 0.60           |
| TPY0703-820 □ | 82                       | 0.490                   | 0.50           |
| TPY0703-101 □ | 100                      | 0.650                   | 0.45           |
| TPY0703-151 □ | 150                      | 0.850                   | 0.35           |
| TPY0703-221 □ | 220                      | 1.250                   | 0.30           |



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## UNSHIELDED SMD POWER INDUCTORS / TPY TYPE

### ELECTRICAL CHARACTERISTICS FOR TPY0705

| Part No.      | Inductance<br>( $\mu$ H) | RDC<br>( $\Omega$ ) MAX | IDC<br>(A) MAX |
|---------------|--------------------------|-------------------------|----------------|
| TPY0705-3R3 □ | 3.3                      | 0.040                   | 2.70           |
| TPY0705-4R7 □ | 4.7                      | 0.050                   | 2.50           |
| TPY0705-6R8 □ | 6.8                      | 0.060                   | 2.20           |
| TPY0705-100 □ | 10                       | 0.075                   | 2.00           |
| TPY0705-150 □ | 15                       | 0.090                   | 1.50           |
| TPY0705-220 □ | 22                       | 0.120                   | 1.30           |
| TPY0705-330 □ | 33                       | 0.180                   | 1.10           |
| TPY0705-470 □ | 47                       | 0.220                   | 0.90           |
| TPY0705-560 □ | 56                       | 0.250                   | 0.85           |
| TPY0705-680 □ | 68                       | 0.270                   | 0.80           |
| TPY0705-820 □ | 82                       | 0.380                   | 0.70           |
| TPY0705-101 □ | 100                      | 0.420                   | 0.65           |
| TPY0705-151 □ | 150                      | 0.580                   | 0.50           |
| TPY0705-221 □ | 220                      | 0.880                   | 0.40           |
| TPY0705-331 □ | 330                      | 1.100                   | 0.32           |
| TPY0705-471 □ | 470                      | 2.100                   | 0.28           |
| TPY0705-561 □ | 560                      | 2.200                   | 0.25           |
| TPY0705-681 □ | 680                      | 2.500                   | 0.22           |
| TPY0705-821 □ | 820                      | 2.900                   | 0.20           |
| TPY0705-102 □ | 1000                     | 4.000                   | 0.18           |

\* Test Frequency : 100KHZ/0.1V



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# SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

## FEATURES

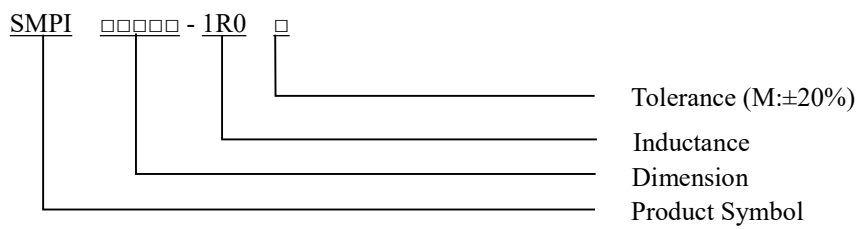
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.



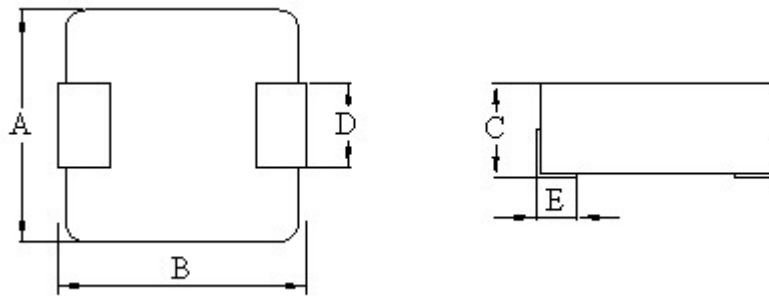
## APPLICATIONS

- ◆ Servers.
- ◆ Graphics cards.
- ◆ Various categories of consumer electronics.

## ORDERING CODE



## SHAPES



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## SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

**DIMENSIONS (UNIT: mm)**

| Part No.   | A          | B          | C (MAX) | D (REF) | E (REF) |
|------------|------------|------------|---------|---------|---------|
| SMPI 04020 | 4.0 ± 0.3  | 4.5 ± 0.4  | 2.0     | 1.8     | 1.0     |
| SMPI 05015 | 5.2 ± 0.3  | 5.5 ± 0.4  | 1.5     | 2.0     | 1.0     |
| SMPI 05030 | 5.2 ± 0.3  | 5.5 ± 0.4  | 3.0     | 2.0     | 1.0     |
| SMPI 06020 | 6.6 ± 0.3  | 7.2 ± 0.5  | 2.0     | 3.0     | 1.6     |
| SMPI 06030 | 6.6 ± 0.3  | 7.2 ± 0.5  | 3.0     | 3.0     | 1.6     |
| SMPI 06050 | 6.6 ± 0.3  | 7.2 ± 0.5  | 5.0     | 3.0     | 1.6     |
| SMPI 07050 | 7.2 ± 0.3  | 7.8 ± 0.5  | 5.0     | 3.0     | 1.6     |
| SMPI 08030 | 8.0 ± 0.3  | 8.6 ± 0.6  | 3.0     | 3.0     | 1.8     |
| SMPI 08040 | 8.0 ± 0.3  | 8.6 ± 0.6  | 4.0     | 3.0     | 1.8     |
| SMPI 08050 | 8.0 ± 0.3  | 8.6 ± 0.6  | 5.0     | 3.0     | 1.8     |
| SMPI 10040 | 10.0 ± 0.5 | 10.5 ± 1.0 | 4.0     | 3.0     | 2.2     |
| SMPI 10045 | 10.0 ± 0.5 | 10.5 ± 1.0 | 4.5     | 3.0     | 2.2     |
| SMPI 10050 | 10.0 ± 0.5 | 10.5 ± 1.0 | 5.0     | 3.0     | 2.2     |
| SMPI 12040 | 12.8 ± 0.5 | 13.5 ± 1.0 | 4.0     | 3.8     | 2.5     |
| SMPI 12050 | 12.8 ± 0.5 | 13.5 ± 1.0 | 5.0     | 3.8     | 2.5     |
| SMPI 12065 | 12.8 ± 0.5 | 13.5 ± 1.0 | 6.5     | 3.8     | 2.5     |
| SMPI 17070 | 17.2 (MAX) | 18.0 ± 1.0 | 7.2     | 11.9    | 2.7     |
| SMPI 22130 | 22.0 ± 0.3 | 22.5 ± 0.3 | 13      | 18.6    | 5.0     |

### ELECTRICAL CHARACTERISTICS FOR SMPI 04020

| Part No.       | Inductance (uH)<br>@0(A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI04020-R10M | 0.10                     | 100KHz/1V      | 14                             | 35                                          | 4.2             |
| SMPI04020-R15M | 0.15                     | 100KHz/1V      | 11                             | 28                                          | 4.5             |
| SMPI04020-R22M | 0.22                     | 100KHz/1V      | 10                             | 25                                          | 5.5             |
| SMPI04020-R33M | 0.33                     | 100KHz/1V      | 9.0                            | 17                                          | 9.8             |
| SMPI04020-R47M | 0.47                     | 100KHz/1V      | 8.5                            | 15                                          | 15              |
| SMPI04020-R56M | 0.56                     | 100KHz/1V      | 8.0                            | 13                                          | 15              |
| SMPI04020-R68M | 0.68                     | 100KHz/1V      | 7.0                            | 12                                          | 19              |
| SMPI04020-1R0M | 1.00                     | 100KHz/1V      | 6.0                            | 10                                          | 28              |
| SMPI04020-1R2M | 1.20                     | 100KHz/1V      | 5.0                            | 9.0                                         | 32              |
| SMPI04020-1R5M | 1.50                     | 100KHz/1V      | 4.0                            | 8.0                                         | 37              |
| SMPI04020-2R2M | 2.20                     | 100KHz/1V      | 4.0                            | 7.0                                         | 60              |
| SMPI04020-3R3M | 3.30                     | 100KHz/1V      | 3.0                            | 6.0                                         | 96              |
| SMPI04020-4R7M | 4.70                     | 100KHz/1V      | 3.0                            | 5.0                                         | 125             |
| SMPI04020-5R6M | 5.60                     | 100KHz/1V      | 2.5                            | 4.5                                         | 155             |
| SMPI04020-6R8M | 6.80                     | 100KHz/1V      | 2.5                            | 4.0                                         | 165             |
| SMPI04020-8R2M | 8.20                     | 100KHz/1V      | 2.0                            | 3.0                                         | 260             |
| SMPI04020-100M | 10                       | 100KHz/1V      | 1.8                            | 3.0                                         | 310             |



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## **SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE**

### **ELECTRICAL CHARACTERISTICS FOR SMPI 05015**

| Part No.       | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI05015-R47M | 0.47                     | 100KHz/1V      | 9.0                            | 12                                          | 13.5            |
| SMPI05015-R68M | 0.68                     | 100KHz/1V      | 6.0                            | 10                                          | 21.0            |
| SMPI05015-1R0M | 1.00                     | 100KHz/1V      | 5.5                            | 8.0                                         | 28.0            |
| SMPI05015-2R2M | 2.20                     | 100KHz/1V      | 3.3                            | 5.0                                         | 68.0            |
| SMPI05015-3R3M | 3.30                     | 100KHz/1V      | 3.0                            | 5.0                                         | 106             |
| SMPI05015-4R7M | 4.70                     | 100KHz/1V      | 2.5                            | 4.0                                         | 135             |
| SMPI05015-5R6M | 5.60                     | 100KHz/1V      | 2.2                            | 3.5                                         | 150             |
| SMPI05015-6R8M | 6.80                     | 100KHz/1V      | 2.0                            | 3.0                                         | 155             |
| SMPI05015-100M | 10                       | 100KHz/1V      | 1.5                            | 2.0                                         | 213             |

### **ELECTRICAL CHARACTERISTICS FOR SMPI 05030**

| Part No.       | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI05030-R68M | 0.68                     | 100KHz/1V      | 9.0                            | 12                                          | 11              |
| SMPI05030-1R0M | 1.00                     | 100KHz/1V      | 8.0                            | 10                                          | 13              |
| SMPI05030-1R5M | 1.50                     | 100KHz/1V      | 6.0                            | 9                                           | 18              |
| SMPI05030-2R2M | 2.20                     | 100KHz/1V      | 5.5                            | 8                                           | 30              |
| SMPI05030-3R3M | 3.30                     | 100KHz/1V      | 5.0                            | 7                                           | 38              |
| SMPI05030-4R7M | 4.70                     | 100KHz/1V      | 4.0                            | 6                                           | 62              |
| SMPI05030-6R8M | 6.80                     | 100KHz/1V      | 3.0                            | 5                                           | 90              |
| SMPI05030-100M | 10                       | 100KHz/1V      | 2.0                            | 3                                           | 115             |

### **ELECTRICAL CHARACTERISTICS FOR SMPI 06020**

| Part No.       | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI06020-R10M | 0.10                     | 100KHz/1V      | 15                             | 30                                          | 2.8             |
| SMPI06020-R22M | 0.22                     | 100KHz/1V      | 13                             | 22                                          | 7.0             |
| SMPI06020-R68M | 0.68                     | 100KHz/1V      | 9.0                            | 12                                          | 13.5            |
| SMPI06020-1R0M | 1.00                     | 100KHz/1V      | 8.0                            | 10                                          | 19.0            |
| SMPI06020-2R2M | 2.20                     | 100KHz/1V      | 5.0                            | 8                                           | 35.0            |
| SMPI06020-3R3M | 3.30                     | 100KHz/1V      | 4.5                            | 7                                           | 70.0            |
| SMPI06020-4R7M | 4.70                     | 100KHz/1V      | 3.5                            | 6                                           | 73.0            |
| SMPI06020-6R8M | 6.80                     | 100KHz/1V      | 2.5                            | 4                                           | 122             |



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**SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR SMPI 06030**

| Part No.       | Inductance (uH)<br>@ (0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|---------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI06030-R10M | 0.10                      | 100KHz/1V      | 30                             | 40.0                                        | 1.6             |
| SMPI06030-R15M | 0.15                      | 100KHz/1V      | 26                             | 35.0                                        | 2.1             |
| SMPI06030-R22M | 0.22                      | 100KHz/1V      | 24                             | 30.0                                        | 2.6             |
| SMPI06030-R33M | 0.33                      | 100KHz/1V      | 21                             | 27.0                                        | 3.5             |
| SMPI06030-R47M | 0.47                      | 100KHz/1V      | 18                             | 20.0                                        | 4.2             |
| SMPI06030-R56M | 0.56                      | 100KHz/1V      | 16                             | 18.0                                        | 4.2             |
| SMPI06030-R68M | 0.68                      | 100KHz/1V      | 15                             | 16.0                                        | 6.0             |
| SMPI06030-R82M | 0.82                      | 100KHz/1V      | 14                             | 15.5                                        | 8.5             |
| SMPI06030-1R0M | 1.00                      | 100KHz/1V      | 11                             | 15.0                                        | 11.0            |
| SMPI06030-1R2M | 1.20                      | 100KHz/1V      | 10                             | 14.0                                        | 12.5            |
| SMPI06030-1R5M | 1.50                      | 100KHz/1V      | 9.0                            | 13.0                                        | 12.5            |
| SMPI06030-2R2M | 2.20                      | 100KHz/1V      | 8.0                            | 10.0                                        | 19.0            |
| SMPI06030-3R3M | 3.30                      | 100KHz/1V      | 6.0                            | 9.0                                         | 27.6            |
| SMPI06030-4R7M | 4.70                      | 100KHz/1V      | 5.0                            | 8.0                                         | 45.0            |
| SMPI06030-5R6M | 5.60                      | 100KHz/1V      | 4.5                            | 7.0                                         | 48.0            |
| SMPI06030-6R8M | 6.80                      | 100KHz/1V      | 4.0                            | 6.5                                         | 63.0            |
| SMPI06030-8R2M | 8.20                      | 100KHz/1V      | 3.5                            | 6.0                                         | 63.0            |
| SMPI06030-100M | 10                        | 100KHz/1V      | 3.0                            | 5.0                                         | 95.0            |
| SMPI06030-150M | 15                        | 100KHz/1V      | 2.8                            | 4.0                                         | 128             |



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**SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR SMPI 06050**

| Part No.       | Inductance (uH)<br>@0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|-------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI06050-R10M | 0.10                    | 100KHz/1V      | 35                             | 50                                          | 1.6             |
| SMPI06050-R22M | 0.22                    | 100KHz/1V      | 22                             | 31                                          | 2.0             |
| SMPI06050-R33M | 0.33                    | 100KHz/1V      | 23                             | 28                                          | 2.8             |
| SMPI06050-R47M | 0.47                    | 100KHz/1V      | 22                             | 25                                          | 3.6             |
| SMPI06050-R56M | 0.56                    | 100KHz/1V      | 19                             | 22                                          | 4.5             |
| SMPI06050-R68M | 0.68                    | 100KHz/1V      | 16                             | 20                                          | 5.3             |
| SMPI06050-R82M | 0.82                    | 100KHz/1V      | 14                             | 19                                          | 6.0             |
| SMPI06050-1R0M | 1.00                    | 100KHz/1V      | 13                             | 18                                          | 6.8             |
| SMPI06050-1R2M | 1.20                    | 100KHz/1V      | 12                             | 16                                          | 6.8             |
| SMPI06050-1R5M | 1.50                    | 100KHz/1V      | 11                             | 14                                          | 8.0             |
| SMPI06050-2R2M | 2.20                    | 100KHz/1V      | 10                             | 13                                          | 12.5            |
| SMPI06050-3R3M | 3.30                    | 100KHz/1V      | 9.0                            | 11                                          | 15.5            |
| SMPI06050-4R7M | 4.70                    | 100KHz/1V      | 7.5                            | 10                                          | 20.0            |
| SMPI06050-5R6M | 5.60                    | 100KHz/1V      | 6.5                            | 8.0                                         | 23.0            |
| SMPI06050-6R8M | 6.80                    | 100KHz/1V      | 5.5                            | 7.5                                         | 28.0            |
| SMPI06050-8R2M | 8.20                    | 100KHz/1V      | 5.0                            | 7.5                                         | 41.0            |
| SMPI06050-100M | 10                      | 100KHz/1V      | 4.5                            | 7.0                                         | 41.0            |
| SMPI06050-120M | 12                      | 100KHz/1V      | 4.2                            | 6.5                                         | 53.0            |
| SMPI06050-150M | 15                      | 100KHz/1V      | 4.0                            | 6.0                                         | 62.0            |
| SMPI06050-180M | 18                      | 100KHz/1V      | 3.5                            | 5.5                                         | 88.0            |
| SMPI06050-220M | 22                      | 100KHz/1V      | 3.0                            | 5.0                                         | 93.0            |
| SMPI06050-330M | 33                      | 100KHz/1V      | 2.5                            | 4.0                                         | 145             |
| SMPI06050-470M | 47                      | 100KHz/1V      | 2.0                            | 3.0                                         | 208             |
| SMPI06050-560M | 56                      | 100KHz/1V      | 1.8                            | 2.5                                         | 248             |
| SMPI06050-680M | 68                      | 100KHz/1V      | 1.5                            | 2.0                                         | 310             |



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## SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

### ELECTRICAL CHARACTERISTICS FOR SMPI 07050

| Part No.       | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI07050-2R2M | 2.2                      | 100KHz/0.1V    | 9.0                            | 14                                          | 12              |
| SMPI07050-6R8M | 6.8                      | 100KHz/0.1V    | 5.5                            | 8.0                                         | 30              |
| SMPI07050-100M | 10                       | 100KHz/0.1V    | 4.8                            | 7.0                                         | 65              |
| SMPI07050-220M | 22                       | 100KHz/0.1V    | 3.0                            | 5.0                                         | 140             |
| SMPI07050-270M | 27                       | 100KHz/0.1V    | 3.0                            | 4.5                                         | 182             |
| SMPI07050-330M | 33                       | 100KHz/0.1V    | 2.0                            | 4.0                                         | 237             |
| SMPI07050-470M | 47                       | 100KHz/0.1V    | 2.0                            | 3.5                                         | 247             |
| SMPI07050-560M | 56                       | 100KHz/0.1V    | 1.8                            | 3.0                                         | 310             |

### ELECTRICAL CHARACTERISTICS FOR SMPI 08030

| Part No.       | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI08030-1R0M | 1.0                      | 100KHz/1V      | 11                             | 16                                          | 6.5             |
| SMPI08030-1R5M | 1.5                      | 100KHz/1V      | 10                             | 14                                          | 7.2             |
| SMPI08030-1R8M | 1.8                      | 100KHz/1V      | 9.5                            | 13                                          | 16              |
| SMPI08030-2R2M | 2.2                      | 100KHz/1V      | 9.0                            | 12                                          | 17              |
| SMPI08030-3R3M | 3.3                      | 100KHz/1V      | 8.0                            | 10                                          | 19              |

### ELECTRICAL CHARACTERISTICS FOR SMPI 08040

| Part No.       | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI08040-1R0M | 1.0                      | 100KHz/1V      | 13                             | 18.0                                        | 6.5             |
| SMPI08040-1R5M | 1.5                      | 100KHz/1V      | 12                             | 16.0                                        | 8.0             |
| SMPI08040-2R2M | 2.2                      | 100KHz/1V      | 10                             | 15.0                                        | 9.0             |
| SMPI08040-4R7M | 4.7                      | 100KHz/1V      | 8                              | 11.5                                        | 19              |
| SMPI08040-6R8M | 6.8                      | 100KHz/1V      | 6                              | 10.0                                        | 27              |
| SMPI08040-8R2M | 8.2                      | 100KHz/1V      | 5                              | 8.0                                         | 48              |
| SMPI08040-100M | 10                       | 100KHz/1V      | 5                              | 7.0                                         | 48              |
| SMPI08040-220M | 22                       | 100KHz/1V      | 4                              | 6.0                                         | 118             |
| SMPI08040-330M | 33                       | 100KHz/1V      | 3                              | 4.0                                         | 168             |
| SMPI08040-470M | 47                       | 100KHz/1V      | 2                              | 3.5                                         | 200             |



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**SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR SMPI 08050**

| Part No.       | Inductance (uH)<br>@0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|-------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI08050-R22M | 0.22                    | 100KHz/1V      | 20                             | 35                                          | 1.2             |
| SMPI08050-R68M | 0.68                    | 100KHz/1V      | 16                             | 21                                          | 4.3             |
| SMPI08050-R82M | 0.82                    | 100KHz/1V      | 15                             | 20                                          | 4.8             |
| SMPI08050-1R0M | 1.00                    | 100KHz/1V      | 14                             | 19                                          | 5.8             |
| SMPI08050-1R5M | 1.50                    | 100KHz/1V      | 13                             | 18                                          | 6.5             |
| SMPI08050-2R2M | 2.20                    | 100KHz/1V      | 11                             | 17                                          | 9.0             |
| SMPI08050-3R3M | 3.30                    | 100KHz/1V      | 10                             | 15                                          | 12.5            |
| SMPI08050-4R7M | 4.70                    | 100KHz/1V      | 9.0                            | 13                                          | 19.0            |
| SMPI08050-5R6M | 5.60                    | 100KHz/1V      | 8.0                            | 12                                          | 23.5            |
| SMPI08050-6R8M | 6.80                    | 100KHz/1V      | 7.0                            | 11                                          | 25.0            |
| SMPI08050-8R2M | 8.20                    | 100KHz/1V      | 6.0                            | 10                                          | 36.0            |
| SMPI08050-100M | 10                      | 100KHz/1V      | 5.5                            | 9.0                                         | 37.0            |
| SMPI08050-150M | 15                      | 100KHz/1V      | 5.0                            | 8.0                                         | 60.0            |
| SMPI08050-220M | 22                      | 100KHz/1V      | 4.0                            | 7.0                                         | 79.0            |
| SMPI08050-330M | 33                      | 100KHz/1V      | 3.5                            | 5.0                                         | 142             |
| SMPI08050-470M | 47                      | 100KHz/1V      | 3.0                            | 4.0                                         | 165             |
| SMPI08050-560M | 56                      | 100KHz/1V      | 2.0                            | 3.5                                         | 176             |
| SMPI08050-680M | 68                      | 100KHz/1V      | 1.8                            | 2.5                                         | 206             |
| SMPI08050-101M | 100                     | 100KHz/1V      | 1.5                            | 2.0                                         | 285             |
| SMPI08050-151M | 150                     | 100KHz/1V      | 1.2                            | 1.8                                         | 430             |



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## SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

### ELECTRICAL CHARACTERISTICS FOR SMPI 10040

| Part No.       | Inductance (uH)<br>@0A | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI10040-R15M | 0.15                   | 100KHz/1V      | 40                             | 70                                          | 0.75            |
| SMPI10040-R22M | 0.22                   | 100KHz/1V      | 30                             | 50                                          | 1.0             |
| SMPI10040-R33M | 0.33                   | 100KHz/1V      | 28                             | 49                                          | 1.3             |
| SMPI10040-R36M | 0.36                   | 100KHz/1V      | 25                             | 48                                          | 1.3             |
| SMPI10040-R45M | 0.45                   | 100KHz/1V      | 23                             | 40                                          | 1.5             |
| SMPI10040-R47M | 0.47                   | 100KHz/1V      | 21                             | 35                                          | 1.5             |
| SMPI10040-R56M | 0.56                   | 100KHz/1V      | 19                             | 32                                          | 2.0             |
| SMPI10040-R68M | 0.68                   | 100KHz/1V      | 18                             | 25                                          | 2.0             |
| SMPI10040-R82M | 0.82                   | 100KHz/1V      | 16                             | 22                                          | 2.5             |
| SMPI10040-1R0M | 1.00                   | 100KHz/1V      | 15                             | 20                                          | 2.5             |
| SMPI10040-1R5M | 1.50                   | 100KHz/1V      | 12                             | 18                                          | 5.2             |
| SMPI10040-2R2M | 2.20                   | 100KHz/1V      | 9.0                            | 15                                          | 7.5             |
| SMPI10040-3R3M | 3.30                   | 100KHz/1V      | 8.5                            | 14                                          | 11.5            |
| SMPI10040-4R7M | 4.70                   | 100KHz/1V      | 8.0                            | 13                                          | 14.5            |
| SMPI10040-5R6M | 5.60                   | 100KHz/1V      | 7.0                            | 12                                          | 19.0            |
| SMPI10040-6R8M | 6.80                   | 100KHz/1V      | 6.0                            | 10                                          | 21.0            |
| SMPI10040-8R2M | 8.20                   | 100KHz/1V      | 5.5                            | 9.0                                         | 32.0            |
| SMPI10040-100M | 10                     | 100KHz/1V      | 5.0                            | 8.0                                         | 36.0            |
| SMPI10040-150M | 15                     | 100KHz/1V      | 4.0                            | 7.0                                         | 60.0            |
| SMPI10040-220M | 22                     | 100KHz/1V      | 3.5                            | 6.0                                         | 68.0            |
| SMPI10040-330M | 33                     | 100KHz/1V      | 3.0                            | 5.0                                         | 100             |
| SMPI10040-470M | 47                     | 100KHz/1V      | 2.0                            | 3.5                                         | 145             |

### ELECTRICAL CHARACTERISTICS FOR SMPI 10045

| Part No.       | Inductance (uH)<br>@0A | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI10045-100M | 10                     | 100KHz / 1V    | 6.0                            | 9.0                                         | 27              |
| SMPI10045-150M | 15                     | 100KHz / 1V    | 5.0                            | 8.0                                         | 42              |
| SMPI10045-220M | 22                     | 100KHz / 1V    | 4.0                            | 7.0                                         | 63              |
| SMPI10045-330M | 33                     | 100KHz / 1V    | 3.5                            | 5.5                                         | 96              |
| SMPI10045-470M | 47                     | 100KHz / 1V    | 3.0                            | 5.0                                         | 147             |
| SMPI10045-680M | 68                     | 100KHz / 1V    | 2.5                            | 4.5                                         | 210             |
| SMPI10045-820M | 82                     | 100KHz / 1V    | 2.0                            | 4.0                                         | 245             |
| SMPI10045-101M | 100                    | 100KHz / 1V    | 1.5                            | 3.0                                         | 265             |



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**SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR SMPI 10050**

| Part No.       | Inductance (uH)<br>@0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|-------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI10050-R36M | 0.36                    | 100KHz/1V      | 36                             | 52                                          | 1.1             |
| SMPI10050-R68M | 0.68                    | 100KHz/1V      | 20                             | 35                                          | 1.9             |
| SMPI10050-R82M | 0.82                    | 100KHz/1V      | 18                             | 30                                          | 2.5             |
| SMPI10050-1R0M | 1.00                    | 100KHz/1V      | 16                             | 28                                          | 2.5             |
| SMPI10050-1R2M | 1.20                    | 100KHz/1V      | 15                             | 25                                          | 2.8             |
| SMPI10050-1R5M | 1.50                    | 100KHz/1V      | 13                             | 21                                          | 3.1             |
| SMPI10050-2R2M | 2.20                    | 100KHz/1V      | 11                             | 20                                          | 6.2             |
| SMPI10050-3R3M | 3.30                    | 100KHz/1V      | 10                             | 15                                          | 7               |
| SMPI10050-4R7M | 4.70                    | 100KHz/1V      | 9.0                            | 15                                          | 12              |
| SMPI10050-5R6M | 5.60                    | 100KHz/1V      | 8.5                            | 14                                          | 16              |
| SMPI10050-6R8M | 6.80                    | 100KHz/1V      | 8.0                            | 13                                          | 16              |
| SMPI10050-8R2M | 8.20                    | 100KHz/1V      | 7.0                            | 12                                          | 27              |
| SMPI10050-100M | 10                      | 100KHz/1V      | 7.0                            | 11                                          | 28              |
| SMPI10050-150M | 15                      | 100KHz/1V      | 6.0                            | 10.0                                        | 42              |
| SMPI10050-220M | 22                      | 100KHz/1V      | 5.0                            | 8.0                                         | 65              |
| SMPI10050-330M | 33                      | 100KHz/1V      | 4.0                            | 6.0                                         | 95              |
| SMPI10050-470M | 47                      | 100KHz/1V      | 3.5                            | 5.5                                         | 142             |
| SMPI10050-680M | 68                      | 100KHz/1V      | 3.0                            | 5.0                                         | 218             |
| SMPI10050-820M | 82                      | 100KHz/1V      | 2.5                            | 4.5                                         | 240             |
| SMPI10050-101M | 100                     | 100KHz/1V      | 2.0                            | 4.0                                         | 250             |
| SMPI10050-151M | 150                     | 100KHz/1V      | 1.8                            | 3.5                                         | 425             |
| SMPI10050-181M | 180                     | 100KHz/1V      | 1.5                            | 3.0                                         | 460             |
| SMPI10050-201M | 200                     | 100KHz/1V      | 1.2                            | 2.5                                         | 470             |



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## SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

### ELECTRICAL CHARACTERISTICS FOR SMPI 12040

| Part No.       | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI12040-R22M | 0.22                     | 100KHz/1V      | 32                             | 50                                          | 0.9             |
| SMPI12040-R33M | 0.33                     | 100KHz/1V      | 26                             | 45                                          | 1.5             |
| SMPI12040-R47M | 0.47                     | 100KHz/1V      | 23                             | 40                                          | 1.6             |
| SMPI12040-R68M | 0.68                     | 100KHz/1V      | 21                             | 35                                          | 2.1             |
| SMPI12040-1R0M | 1.00                     | 100KHz/1V      | 18                             | 30                                          | 4.0             |
| SMPI12040-1R5M | 1.50                     | 100KHz/1V      | 13                             | 22                                          | 5.5             |
| SMPI12040-2R2M | 2.20                     | 100KHz/1V      | 11                             | 18                                          | 5.5             |
| SMPI12040-3R3M | 3.30                     | 100KHz/1V      | 9                              | 14                                          | 8.5             |
| SMPI12040-4R7M | 4.70                     | 100KHz/1V      | 8                              | 12                                          | 17.5            |
| SMPI12040-6R8M | 6.80                     | 100KHz/1V      | 6                              | 10                                          | 25              |
| SMPI12040-8R2M | 8.20                     | 100KHz/1V      | 5                              | 9                                           | 26              |
| SMPI12040-100M | 10                       | 100KHz/1V      | 4                              | 8                                           | 32              |

### ELECTRICAL CHARACTERISTICS FOR SMPI 12050

| Part No.       | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI12050-R33M | 0.33                     | 100KHz/1V      | 40                             | 60                                          | 1.0             |
| SMPI12050-R36M | 0.36                     | 100KHz/1V      | 35                             | 48                                          | 1.2             |
| SMPI12050-R47M | 0.47                     | 100KHz/1V      | 25                             | 45                                          | 1.2             |
| SMPI12050-R56M | 0.56                     | 100KHz/1V      | 24                             | 42                                          | 1.3             |
| SMPI12050-R68M | 0.68                     | 100KHz/1V      | 23                             | 38                                          | 1.3             |
| SMPI12050-R82M | 0.82                     | 100KHz/1V      | 22                             | 36                                          | 2.1             |
| SMPI12050-1R0M | 1.00                     | 100KHz/1V      | 20                             | 32                                          | 2.6             |
| SMPI12050-1R2M | 1.20                     | 100KHz/1V      | 18                             | 30                                          | 2.6             |
| SMPI12050-1R5M | 1.50                     | 100KHz/1V      | 15                             | 28                                          | 3.1             |
| SMPI12050-2R2M | 2.20                     | 100KHz/1V      | 14                             | 23                                          | 6.0             |
| SMPI12050-3R3M | 3.30                     | 100KHz/1V      | 13                             | 20                                          | 8.0             |
| SMPI12050-4R7M | 4.70                     | 100KHz/1V      | 12                             | 18                                          | 9.0             |
| SMPI12050-5R6M | 5.60                     | 100KHz/1V      | 9.0                            | 15                                          | 10.5            |
| SMPI12050-6R8M | 6.80                     | 100KHz/1V      | 8.0                            | 14                                          | 15.0            |
| SMPI12050-8R2M | 8.20                     | 100KHz/1V      | 7.5                            | 13                                          | 22.0            |
| SMPI12050-100M | 10                       | 100KHz/1V      | 7.0                            | 12                                          | 24.0            |
| SMPI12050-150M | 15                       | 100KHz/1V      | 5.0                            | 10                                          | 30.0            |
| SMPI12050-220M | 22                       | 100KHz/1V      | 4.5                            | 7                                           | 40.0            |
| SMPI12050-330M | 33                       | 100KHz/1V      | 3.5                            | 6                                           | 60.0            |
| SMPI12050-470M | 47                       | 100KHz/1V      | 3.0                            | 5                                           | 80.0            |
| SMPI12050-680M | 68                       | 100KHz/1V      | 2.5                            | 4                                           | 106             |



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**SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR SMPI 12065**

| Part No.       | Inductance (uH)<br>@0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|-------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI12065-R47M | 0.47                    | 100KHz/1V      | 36.0                           | 50                                          | 1.0             |
| SMPI12065-1R0M | 1.00                    | 100KHz/1V      | 25.0                           | 36                                          | 1.8             |
| SMPI12065-1R2M | 1.20                    | 100KHz/1V      | 22.0                           | 34                                          | 2.7             |
| SMPI12065-1R5M | 1.50                    | 100KHz/1V      | 20.0                           | 30                                          | 4.5             |
| SMPI12065-2R2M | 2.20                    | 100KHz/1V      | 18.0                           | 26                                          | 6.0             |
| SMPI12065-3R3M | 3.30                    | 100KHz/1V      | 15.0                           | 24                                          | 7.0             |
| SMPI12065-4R7M | 4.70                    | 100KHz/1V      | 14.0                           | 22                                          | 8.5             |
| SMPI12065-5R6M | 5.60                    | 100KHz/1V      | 12.5                           | 20                                          | 10.5            |
| SMPI12065-6R8M | 6.80                    | 100KHz/1V      | 11.0                           | 18                                          | 11.5            |
| SMPI12065-8R2M | 8.20                    | 100KHz/1V      | 10.0                           | 16                                          | 12.5            |
| SMPI12065-100M | 10                      | 100KHz/1V      | 9.0                            | 14                                          | 20.7            |
| SMPI12065-150M | 15                      | 100KHz/1V      | 7.0                            | 12                                          | 23.0            |
| SMPI12065-220M | 22                      | 100KHz/1V      | 6.5                            | 10                                          | 38.0            |
| SMPI12065-330M | 33                      | 100KHz/1V      | 6.0                            | 9.0                                         | 52.0            |
| SMPI12065-470M | 47                      | 100KHz/1V      | 5.0                            | 6.0                                         | 68.0            |
| SMPI12065-560M | 56                      | 100KHz/1V      | 4.5                            | 5.5                                         | 93.0            |
| SMPI12065-680M | 68                      | 100KHz/1V      | 4.0                            | 5.0                                         | 98.0            |
| SMPI12065-820M | 82                      | 100KHz/1V      | 3.2                            | 4.5                                         | 108             |
| SMPI12065-101M | 100                     | 100KHz/1V      | 3.0                            | 4.2                                         | 118             |
| SMPI12065-121M | 120                     | 100KHz/1V      | 2.8                            | 4.0                                         | 180             |
| SMPI12065-151M | 150                     | 100KHz/1V      | 2.5                            | 3.8                                         | 329             |
| SMPI12065-201M | 200                     | 100KHz/1V      | 2.0                            | 3.2                                         | 365             |
| SMPI12065-221M | 220                     | 100KHz/1V      | 1.8                            | 3.0                                         | 370             |
| SMPI12065-331M | 330                     | 100KHz/1V      | 1.5                            | 2.5                                         | 485             |
| SMPI12065-401M | 400                     | 100KHz/1V      | 1.3                            | 2.0                                         | 700             |



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**SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE**  
**ELECTRICAL CHARACTERISTICS FOR SMPI 17070**

| Part No.       | Inductance (uH)<br>@0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|-------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI17070-1R0M | 1.0                     | 100KHz/1V      | 35                             | 60                                          | 1.6             |
| SMPI17070-1R5M | 1.5                     | 100KHz/1V      | 33                             | 50                                          | 2.5             |
| SMPI17070-2R2M | 2.2                     | 100KHz/1V      | 30                             | 40                                          | 3.2             |
| SMPI17070-3R3M | 3.3                     | 100KHz/1V      | 23                             | 30                                          | 3.8             |
| SMPI17070-4R7M | 4.7                     | 100KHz/1V      | 20                             | 26                                          | 4.8             |
| SMPI17070-5R6M | 5.6                     | 100KHz/1V      | 18                             | 23                                          | 5.0             |
| SMPI17070-6R8M | 6.8                     | 100KHz/1V      | 17                             | 22                                          | 7.5             |
| SMPI17070-8R2M | 8.2                     | 100KHz/1V      | 16                             | 20                                          | 9.0             |
| SMPI17070-100M | 10                      | 100KHz/1V      | 14                             | 18                                          | 10              |
| SMPI17070-150M | 15                      | 100KHz/1V      | 12                             | 16                                          | 21              |
| SMPI17070-220M | 22                      | 100KHz/1V      | 10                             | 13                                          | 25              |
| SMPI17070-330M | 33                      | 100KHz/1V      | 8.0                            | 10                                          | 33              |
| SMPI17070-470M | 47                      | 100KHz/1V      | 7.0                            | 9.0                                         | 45              |
| SMPI17070-680M | 68                      | 100KHz/1V      | 5.0                            | 8.5                                         | 73              |
| SMPI17070-820M | 82                      | 100KHz/1V      | 4.5                            | 8.0                                         | 104             |
| SMPI17070-101M | 100                     | 100KHz/1V      | 4.0                            | 7.0                                         | 115             |
| SMPI17070-121M | 120                     | 100KHz/1V      | 3.5                            | 5.5                                         | 118             |
| SMPI17070-151M | 150                     | 100KHz/1V      | 3.0                            | 5.0                                         | 150             |
| SMPI17070-221M | 220                     | 100KHz/1V      | 2.5                            | 4.0                                         | 265             |
| SMPI17070-351M | 350                     | 100KHz/1V      | 1.8                            | 3.0                                         | 415             |



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# SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

## ELECTRICAL CHARACTERISTICS FOR SMPI 22130

| Part No.       | Inductance (uH)<br>@0A | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|----------------|------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI22130-1R0M | 1.0                    | 100KHz/1V      | 60                             | 75                                          | 1.1             |
| SMPI22130-1R5M | 1.5                    | 100KHz/1V      | 55                             | 70                                          | 1.2             |
| SMPI22130-2R2M | 2.2                    | 100KHz/1V      | 50                             | 65                                          | 1.5             |
| SMPI22130-3R3M | 3.3                    | 100KHz/1V      | 48                             | 60                                          | 1.8             |
| SMPI22130-4R7M | 4.7                    | 100KHz/1V      | 45                             | 55                                          | 2.0             |
| SMPI22130-5R6M | 5.6                    | 100KHz/1V      | 40                             | 52                                          | 2.5             |
| SMPI22130-6R8M | 6.8                    | 100KHz/1V      | 35                             | 42                                          | 3.5             |
| SMPI22130-100M | 10                     | 100KHz/1V      | 32                             | 40                                          | 4.5             |
| SMPI22130-150M | 15                     | 100KHz/1V      | 22                             | 30                                          | 6.8             |
| SMPI22130-220M | 22                     | 100KHz/1V      | 19                             | 26                                          | 11.0            |
| SMPI22130-330M | 33                     | 100KHz/1V      | 16                             | 23                                          | 17.5            |
| SMPI22130-470M | 47                     | 100KHz/1V      | 13                             | 18                                          | 24.0            |
| SMPI22130-560M | 56                     | 100KHz/1V      | 12                             | 16                                          | 35.0            |
| SMPI22130-680M | 68                     | 100KHz/1V      | 11                             | 13                                          | 38.0            |
| SMPI22130-750M | 75                     | 100KHz/1V      | 10                             | 12                                          | 39.0            |
| SMPI22130-820M | 82                     | 100KHz/1V      | 9.0                            | 11                                          | 40.0            |
| SMPI22130-101M | 100                    | 100KHz/1V      | 8.0                            | 10                                          | 45.0            |
| SMPI22130-151M | 150                    | 100KHz/1V      | 6.0                            | 8.0                                         | 80.0            |
| SMPI22130-201M | 200                    | 100KHz/1V      | 5.0                            | 6.0                                         | 105             |
| SMPI22130-221M | 220                    | 100KHz/1V      | 4.5                            | 5.5                                         | 125             |
| SMPI22130-401M | 400                    | 100KHz/1V      | 2.5                            | 4.0                                         | 230             |

Notes:

- 1) You require another part number please contact with us.
- 2) Inductance Tolerance  $\pm 20\%$  ; Frequency Test : 100KHz/1.0v
- 3) All test data is referenced to 25°C ambient.
- 4) Irms : DC current (A) that will cause an approximate  $\Delta T$  of 40°C
- 5) Isat : DC current (A) that will cause Lo to drop approximately 30%
- 6) We can design according to customer's request.



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# SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI-E TYPE

## FEATURES

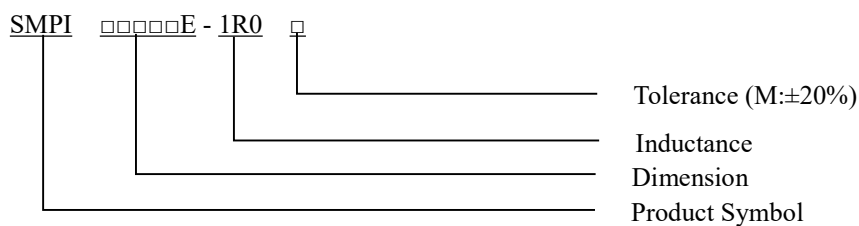
- ◆ Magnetic shielding structure: excellent resistance to electromagnetic interference (EMI).
- ◆ Die-casting by low loss alloy powder: low impedance.
- ◆ High efficiency, wide application frequency and application scope.



## APPLICATIONS

- ◆ Servers.
- ◆ Graphics cards.
- ◆ Various categories of consumer electronics.

## ORDERING CODE



## SHAPES

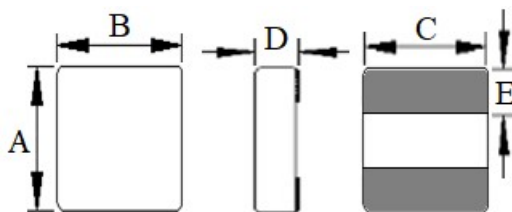


Fig 1.

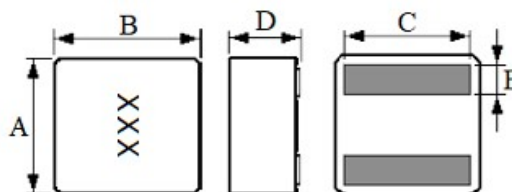


Fig 2.



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# SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI-E TYPE

**DIMENSIONS (UNIT: mm)**

| Part No.    | Fig. | A          | B          | C (REF) | D(MAX) | E (REF) |
|-------------|------|------------|------------|---------|--------|---------|
| SMPI 02010E | 1    | 2.0 ± 0.3  | 1.6 ± 0.3  | 1.6     | 1.1    | 0.7     |
| SMPI 02510E | 1    | 2.5 ± 0.3  | 2.0 ± 0.3  | 2.0     | 1.1    | 0.7     |
| SMPI 02512E | 1    | 2.5 ± 0.3  | 2.0 ± 0.3  | 2.0     | 1.3    | 0.7     |
| SMPI 03212E | 1    | 3.2 ± 0.3  | 2.5 ± 0.3  | 2.5     | 1.3    | 1.0     |
| SMPI 03220E | 1    | 3.2 ± 0.3  | 2.5 ± 0.3  | 2.5     | 2.1    | 1.0     |
| SMPI 04010E | 1    | 4.0 ± 0.3  | 4.0 ± 0.3  | 4.0     | 1.1    | 1.2     |
| SMPI 04012E | 1    | 4.0 ± 0.3  | 4.0 ± 0.3  | 4.0     | 1.3    | 1.2     |
| SMPI 04020E | 1    | 4.0 ± 0.3  | 4.0 ± 0.3  | 4.0     | 2.1    | 1.2     |
| SMPI 04030E | 1    | 4.0 ± 0.3  | 4.0 ± 0.3  | 4.0     | 3.1    | 1.2     |
| SMPI 04040E | 1    | 4.0 ± 0.3  | 4.0 ± 0.3  | 4.0     | 4.1    | 1.2     |
| SMPI 05050E | 2    | 5.5 ± 0.3  | 5.6 ± 0.3  | 4.3     | 5.0    | 1.2     |
| SMPI 06030E | 2    | 6.4 ± 0.3  | 6.6 ± 0.3  | 5.3     | 3.1    | 1.4     |
| SMPI 06060E | 2    | 6.4 ± 0.3  | 6.6 ± 0.3  | 5.3     | 6.1    | 1.4     |
| SMPI 07070E | 2    | 7.2 ± 0.5  | 7.5 ± 0.5  | 6.2     | 7.1    | 1.7     |
| SMPI 10100E | 2    | 10.5 ± 0.5 | 11.6 ± 0.5 | 8.3     | 10.1   | 2.2     |
| SMPI 15080E | 2    | 15.5 ± 0.5 | 16.5 ± 0.5 | 13.2    | 8.1    | 3.2     |
| SMPI 15100E | 2    | 15.8 ± 0.5 | 16.5 ± 0.5 | 13.2    | 10.1   | 3.2     |

## ELECTRICAL CHARACTERISTICS FOR SMPI 02010E

| Part No.        | Inductance (uH)<br>@ (0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|---------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI02010E-R24M | 0.24                      | 100KHz/1V      | 6.3                            | 7.2                                         | 20              |
| SMPI02010E-R33M | 0.33                      | 100KHz/1V      | 5.0                            | 7.1                                         | 30              |
| SMPI02010E-R47M | 0.47                      | 100KHz/1V      | 4.5                            | 7.0                                         | 35              |
| SMPI02010E-R68M | 0.68                      | 100KHz/1V      | 4.0                            | 4.5                                         | 52              |
| SMPI02010E-1R0M | 1.00                      | 100KHz/1V      | 3.0                            | 3.5                                         | 76              |
| SMPI02010E-1R5M | 1.50                      | 100KHz/1V      | 2.1                            | 3.0                                         | 120             |
| SMPI02010E-2R2M | 2.20                      | 100KHz/1V      | 1.6                            | 2.4                                         | 204             |

## ELECTRICAL CHARACTERISTICS FOR SMPI 02510E

| Part No.        | Inductance (uH)<br>@ (0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|---------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI02510E-R33M | 0.33                      | 100KHz/1V      | 6.5                            | 8.5                                         | 22              |
| SMPI02510E-R47M | 0.47                      | 100KHz/1V      | 4.5                            | 6.5                                         | 25              |
| SMPI02510E-1R0M | 1.00                      | 100KHz/1V      | 3.5                            | 4.5                                         | 52              |
| SMPI02510E-1R5M | 1.50                      | 100KHz/1V      | 3.0                            | 3.5                                         | 105             |
| SMPI02510E-2R2M | 2.20                      | 100KHz/1V      | 2.3                            | 3.0                                         | 118             |
| SMPI02510E-3R3M | 3.30                      | 100KHz/1V      | 1.8                            | 2.3                                         | 175             |
| SMPI02510E-4R7M | 4.70                      | 100KHz/1V      | 1.6                            | 1.8                                         | 235             |



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## SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI-E TYPE

### ELECTRICAL CHARACTERISTICS FOR SMPI 02512E

| Part No.        | Inductance (uH)<br>@ (0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|---------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI02512E-R22M | 0.22                      | 100KHz/1V      | 9.0                            | 10.0                                        | 13              |
| SMPI02512E-R33M | 0.33                      | 100KHz/1V      | 6.5                            | 9.0                                         | 20              |
| SMPI02512E-R47M | 0.47                      | 100KHz/1V      | 5.5                            | 8.0                                         | 26              |
| SMPI02512E-R68M | 0.68                      | 100KHz/1V      | 5.2                            | 6.5                                         | 35              |
| SMPI02512E-1R0M | 1.00                      | 100KHz/1V      | 5.0                            | 5.5                                         | 37              |
| SMPI02512E-1R5M | 1.50                      | 100KHz/1V      | 3.2                            | 5.0                                         | 70              |
| SMPI02512E-2R2M | 2.20                      | 100KHz/1V      | 2.6                            | 3.5                                         | 92              |
| SMPI02512E-3R3M | 3.30                      | 100KHz/1V      | 2.0                            | 3.0                                         | 138             |
| SMPI02512E-4R7M | 4.70                      | 100KHz/1V      | 1.8                            | 2.5                                         | 190             |
| SMPI02512E-6R8M | 6.80                      | 100KHz/1V      | 1.6                            | 2.0                                         | 275             |
| SMPI02512E-100M | 10.0                      | 100KHz/1V      | 1.2                            | 1.5                                         | 405             |

### ELECTRICAL CHARACTERISTICS FOR SMPI 03212E

| Part No.        | Inductance (uH)<br>@ (0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|---------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI03212E-R10M | 0.10                      | 100KHz/1V      | 8.5                            | 16.0                                        | 13              |
| SMPI03212E-R22M | 0.22                      | 100KHz/1V      | 8.0                            | 14.0                                        | 14              |
| SMPI03212E-R47M | 0.47                      | 100KHz/1V      | 6.0                            | 12.0                                        | 24              |
| SMPI03212E-R56M | 0.56                      | 100KHz/1V      | 5.0                            | 10.0                                        | 30              |
| SMPI03212E-R68M | 0.68                      | 100KHz/1V      | 4.5                            | 8.0                                         | 32              |
| SMPI03212E-1R0M | 1.00                      | 100KHz/1V      | 4.0                            | 7.0                                         | 35              |
| SMPI03212E-1R5M | 1.50                      | 100KHz/1V      | 3.5                            | 6.0                                         | 62              |
| SMPI03212E-2R2M | 2.20                      | 100KHz/1V      | 3.0                            | 4.5                                         | 75              |
| SMPI03212E-3R3M | 3.30                      | 100KHz/1V      | 2.5                            | 3.5                                         | 127             |
| SMPI03212E-4R7M | 4.70                      | 100KHz/1V      | 2.0                            | 3.0                                         | 192             |
| SMPI03212E-6R8M | 6.80                      | 100KHz/1V      | 2.0                            | 2.8                                         | 210             |
| SMPI03212E-100M | 10.00                     | 100KHz/1V      | 1.8                            | 2.5                                         | 322             |



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## SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI-E TYPE

### ELECTRICAL CHARACTERISTICS FOR SMPI 03220E

| Part No.        | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI03220E-R47M | 0.47                     | 100KHz/1V      | 7.0                            | 12.0                                        | 13              |
| SMPI03220E-R68M | 0.68                     | 100KHz/1V      | 6.5                            | 11.0                                        | 16              |
| SMPI03220E-1R0M | 1.00                     | 100KHz/1V      | 5.4                            | 10.0                                        | 22              |
| SMPI03220E-1R5M | 1.50                     | 100KHz/1V      | 4.5                            | 7.5                                         | 31              |
| SMPI03220E-2R2M | 2.20                     | 100KHz/1V      | 4.0                            | 7.0                                         | 46              |
| SMPI03220E-3R3M | 3.30                     | 100KHz/1V      | 3.0                            | 5.5                                         | 65              |
| SMPI03220E-4R7M | 4.70                     | 100KHz/1V      | 2.8                            | 4.5                                         | 120             |
| SMPI03220E-6R8M | 6.80                     | 100KHz/1V      | 2.3                            | 4.0                                         | 170             |

### ELECTRICAL CHARACTERISTICS FOR SMPI 04010E

| Part No.        | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI04010E-1R0M | 1.0                      | 100KHz/1V      | 3.5                            | 7.0                                         | 46              |
| SMPI04010E-1R5M | 1.5                      | 100KHz/1V      | 3.4                            | 5.0                                         | 70              |
| SMPI04010E-2R2M | 2.2                      | 100KHz/1V      | 3.2                            | 4.5                                         | 85              |
| SMPI04010E-3R3M | 3.3                      | 100KHz/1V      | 2.8                            | 4.0                                         | 120             |
| SMPI04010E-4R7M | 4.7                      | 100KHz/1V      | 2.5                            | 3.0                                         | 160             |
| SMPI04010E-6R8M | 6.8                      | 100KHz/1V      | 2.0                            | 2.5                                         | 185             |
| SMPI04010E-100M | 10.0                     | 100KHz/1V      | 1.5                            | 2.0                                         | 330             |

### ELECTRICAL CHARACTERISTICS FOR SMPI 04012E

| Part No.        | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI04012E-R25M | 0.25                     | 100KHz/0.1V    | 8.0                            | 11.0                                        | 10              |
| SMPI04012E-R47M | 0.47                     | 100KHz/0.1V    | 7.0                            | 9.5                                         | 25              |
| SMPI04012E-R68M | 0.68                     | 100KHz/0.1V    | 6.0                            | 8.0                                         | 30              |
| SMPI04012E-1R0M | 1.0                      | 100KHz/0.1V    | 5.0                            | 7.0                                         | 33              |
| SMPI04012E-1R5M | 1.5                      | 100KHz/0.1V    | 4.2                            | 6.5                                         | 55              |
| SMPI04012E-2R2M | 2.2                      | 100KHz/0.1V    | 4.0                            | 6.0                                         | 63              |
| SMPI04012E-3R3M | 3.3                      | 100KHz/0.1V    | 3.5                            | 5.0                                         | 90              |
| SMPI04012E-4R7M | 4.7                      | 100KHz/0.1V    | 3.0                            | 4.5                                         | 110             |
| SMPI04012E-5R6M | 5.6                      | 100KHz/0.1V    | 2.5                            | 4.0                                         | 140             |
| SMPI04012E-6R8M | 6.8                      | 100KHz/0.1V    | 2.3                            | 3.5                                         | 160             |
| SMPI04012E-100M | 10.0                     | 100KHz/0.1V    | 1.8                            | 2.5                                         | 240             |



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## SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI-E TYPE

### ELECTRICAL CHARACTERISTICS FOR SMPI 04020E

| Part No.        | Inductance (uH)<br>@ (0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|---------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI04020E-R22M | 0.22                      | 100KHz/1V      | 24.0                           | 25.0                                        | 2.6             |
| SMPI04020E-R47M | 0.47                      | 100KHz/1V      | 13.2                           | 16.0                                        | 4.4             |
| SMPI04020E-R68M | 0.68                      | 100KHz/1V      | 10.0                           | 12.5                                        | 6.4             |
| SMPI04020E-1R0M | 1.00                      | 100KHz/1V      | 14.0                           | 11.0                                        | 8.9             |
| SMPI04020E-1R5M | 1.50                      | 100KHz/1V      | 6.0                            | 10.0                                        | 20.0            |
| SMPI04020E-2R2M | 2.20                      | 100KHz/1V      | 5.0                            | 8.0                                         | 34.0            |
| SMPI04020E-3R3M | 3.30                      | 100KHz/1V      | 4.5                            | 6.0                                         | 43.0            |
| SMPI04020E-4R7M | 4.70                      | 100KHz/1V      | 4.0                            | 5.5                                         | 63.0            |
| SMPI04020E-5R6M | 5.60                      | 100KHz/1V      | 4.0                            | 5.3                                         | 67.0            |
| SMPI04020E-100M | 10.00                     | 100KHz/1V      | 3.4                            | 4.9                                         | 125.0           |
| SMPI04020E-220M | 22.00                     | 100KHz/1V      | 1.7                            | 2.8                                         | 280.0           |

### ELECTRICAL CHARACTERISTICS FOR SMPI 04030E

| Part No.        | Inductance (uH)<br>@ (0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|---------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI04030E-R15M | 0.15                      | 100KHz/1V      | 26.0                           | 24.0                                        | 1.9             |
| SMPI04030E-R30M | 0.30                      | 100KHz/1V      | 24.0                           | 17.0                                        | 2.9             |
| SMPI04030E-R47M | 0.47                      | 100KHz/1V      | 21.2                           | 14.2                                        | 3.9             |
| SMPI04030E-R68M | 0.68                      | 100KHz/1V      | 14.0                           | 12.0                                        | 4.8             |
| SMPI04030E-1R0M | 1.0                       | 100KHz/1V      | 13.0                           | 10.3                                        | 7.2             |
| SMPI04030E-1R5M | 1.5                       | 100KHz/1V      | 10.2                           | 8.8                                         | 10.5            |
| SMPI04030E-2R2M | 2.2                       | 100KHz/1V      | 8.7                            | 7.0                                         | 15.0            |
| SMPI04030E-3R3M | 3.3                       | 100KHz/1V      | 7.5                            | 5.3                                         | 32.0            |
| SMPI04030E-4R7M | 4.7                       | 100KHz/1V      | 5.1                            | 5.1                                         | 44.1            |
| SMPI04030E-6R8M | 6.8                       | 100KHz/1V      | 4.7                            | 4.0                                         | 70.0            |
| SMPI04030E-8R2M | 8.2                       | 100KHz/1V      | 4.2                            | 3.5                                         | 55.7            |
| SMPI04030E-100M | 10.0                      | 100KHz/1V      | 3.9                            | 3.2                                         | 99.8            |



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## SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI-E TYPE

### ELECTRICAL CHARACTERISTICS FOR SMPI 04040E

| Part No.        | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI04040E-R15M | 0.15                     | 100KHz/1V      | 30.2                           | 21.0                                        | 1.8             |
| SMPI04040E-R30M | 0.30                     | 100KHz/1V      | 24.6                           | 15.3                                        | 2.6             |
| SMPI04040E-R47M | 0.47                     | 100KHz/1V      | 20.8                           | 12.2                                        | 3.2             |
| SMPI04040E-R68M | 0.68                     | 100KHz/1V      | 18.3                           | 10.5                                        | 4.0             |
| SMPI04040E-1R0M | 1.00                     | 100KHz/1V      | 14.8                           | 9.3                                         | 5.6             |
| SMPI04040E-1R5M | 1.50                     | 100KHz/1V      | 12.5                           | 7.9                                         | 7.9             |
| SMPI04040E-2R2M | 2.20                     | 100KHz/1V      | 11.0                           | 6.4                                         | 11.5            |
| SMPI04040E-3R3M | 3.30                     | 100KHz/1V      | 8.7                            | 5.5                                         | 16.6            |
| SMPI04040E-4R7M | 4.70                     | 100KHz/1V      | 7.1                            | 4.4                                         | 24.5            |
| SMPI04040E-6R8M | 6.80                     | 100KHz/1V      | 5.6                            | 4.0                                         | 34.7            |
| SMPI04040E-100M | 10.00                    | 100KHz/1V      | 5.0                            | 2.8                                         | 50.5            |

### ELECTRICAL CHARACTERISTICS FOR SMPI 05050E

| Part No.        | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI05050E-1R5M | 1.5                      | 100KHz/1V      | 17.1                           | 13.1                                        | 5.7             |
| SMPI05050E-4R7M | 4.7                      | 100KHz/1V      | 9.7                            | 7.0                                         | 16.0            |
| SMPI05050E-5R6M | 5.6                      | 100KHz/1V      | 7.2                            | 7.2                                         | 24.2            |
| SMPI05050E-6R8M | 6.8                      | 100KHz/1V      | 6.4                            | 6.6                                         | 28.6            |
| SMPI05050E-8R2M | 8.2                      | 100KHz/1V      | 6.1                            | 6.1                                         | 32.5            |
| SMPI05050E-100M | 10                       | 100KHz/1V      | 5.0                            | 5.4                                         | 43.0            |

### ELECTRICAL CHARACTERISTICS FOR SMPI 06030E

| Part No.        | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI06030E-R18M | 0.18                     | 100KHz / 1V    | 32                             | 39.0                                        | 1.75            |
| SMPI06030E-R56M | 0.56                     | 100KHz / 1V    | 22                             | 29.0                                        | 3.45            |
| SMPI06030E-1R0M | 1.00                     | 100KHz / 1V    | 18                             | 23.0                                        | 6.18            |
| SMPI06030E-2R2M | 2.20                     | 100KHz / 1V    | 10                             | 16.0                                        | 14.00           |
| SMPI06030E-3R3M | 3.30                     | 100KHz / 1V    | 8                              | 12.2                                        | 20.81           |
| SMPI06030E-4R7M | 4.70                     | 100KHz / 1V    | 8                              | 9.0                                         | 28.00           |



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## SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI-E TYPE

### ELECTRICAL CHARACTERISTICS FOR SMPI 06060E

| Part No.        | Inductance (uH)<br>@ (0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|---------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI06060E-3R3M | 3.3                       | 100KHz/1V      | 13                             | 15.0                                        | 13.0            |
| SMPI06060E-4R7M | 4.7                       | 100KHz/1V      | 11                             | 10.5                                        | 14.4            |
| SMPI06060E-6R8M | 6.8                       | 100KHz/1V      | 9                              | 9.5                                         | 20.8            |
| SMPI06060E-8R2M | 8.2                       | 100KHz/1V      | 8                              | 8.4                                         | 26.0            |
| SMPI06060E-100M | 10.0                      | 100KHz/1V      | 7                              | 7.6                                         | 29.8            |

### ELECTRICAL CHARACTERISTICS FOR SMPI 07070E

| Part No.        | Inductance (uH)<br>@ (0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|---------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI07070E-1R0M | 1.0                       | 100KHz/1V      | 25.0                           | 34.8                                        | 2.81            |
| SMPI07070E-2R2M | 2.2                       | 100KHz/1V      | 17.8                           | 19.6                                        | 6.50            |
| SMPI07070E-3R3M | 3.3                       | 100KHz/1V      | 15.1                           | 19.4                                        | 9.42            |
| SMPI07070E-4R7M | 4.7                       | 100KHz/1V      | 13.6                           | 15.2                                        | 14.26           |
| SMPI07070E-5R6M | 5.6                       | 100KHz/1V      | 11.4                           | 13.0                                        | 15.03           |
| SMPI07070E-6R8M | 6.8                       | 100KHz/1V      | 9.2                            | 12.8                                        | 19.62           |
| SMPI07070E-100M | 10.0                      | 100KHz/1V      | 9.3                            | 7.5                                         | 20.17           |
| SMPI07070E-120M | 12.0                      | 100KHz/1V      | 8.2                            | 7.4                                         | 22.23           |
| SMPI07070E-150M | 15.0                      | 100KHz/1V      | 7.4                            | 7.0                                         | 29.52           |
| SMPI07070E-180M | 18.0                      | 100KHz/1V      | 6.8                            | 6.3                                         | 32.82           |
| SMPI07070E-220M | 22.0                      | 100KHz/1V      | 6.5                            | 5.6                                         | 39.69           |
| SMPI07070E-330M | 33.0                      | 100KHz/1V      | 4.9                            | 4.4                                         | 62.08           |
| SMPI07070E-470M | 47.0                      | 100KHz/1V      | 4.1                            | 4.2                                         | 97.07           |

### ELECTRICAL CHARACTERISTICS FOR SMPI 10100E

| Part No.        | Inductance (uH)<br>@ (0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|---------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI10100E-2R2M | 2.2                       | 100KHz/1V      | 32.0                           | 34.0                                        | 2.80            |
| SMPI10100E-3R3M | 3.3                       | 100KHz/1V      | 25.0                           | 27.4                                        | 4.10            |
| SMPI10100E-4R7M | 4.7                       | 100KHz/1V      | 22.0                           | 25.4                                        | 5.70            |
| SMPI10100E-5R6M | 5.6                       | 100KHz/1V      | 21.2                           | 23.6                                        | 6.93            |
| SMPI10100E-6R8M | 6.8                       | 100KHz/1V      | 18.5                           | 21.8                                        | 8.90            |
| SMPI10100E-8R2M | 8.2                       | 100KHz/1V      | 17.1                           | 18.3                                        | 12.90           |
| SMPI10100E-100M | 10.0                      | 100KHz/1V      | 15.5                           | 17.5                                        | 14.75           |
| SMPI10100E-150M | 15.0                      | 100KHz/1V      | 13.8                           | 15.5                                        | 19.30           |
| SMPI10100E-220M | 22.0                      | 100KHz/1V      | 12.0                           | 12.0                                        | 22.00           |



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### ELECTRICAL CHARACTERISTICS FOR SMPI 15080E

| Part No.        | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI15080E-2R0M | 2.0                      | 100KHz/1V      | 39.9                           | 51.0                                        | 2.29            |
| SMPI15080E-3R0M | 3.0                      | 100KHz/1V      | 34.4                           | 43.0                                        | 3.10            |
| SMPI15080E-4R5M | 4.5                      | 100KHz/1V      | 27.0                           | 34.2                                        | 4.58            |
| SMPI15080E-5R3M | 5.3                      | 100KHz/1V      | 26.5                           | 33.0                                        | 5.22            |
| SMPI15080E-150M | 15.0                     | 100KHz/1V      | 15.0                           | 18.0                                        | 15.00           |

### ELECTRICAL CHARACTERISTICS FOR SMPI 15100E

| Part No.        | Inductance (uH)<br>@(0A) | Test Frequency | Heat Rating<br>Current Irms(A) | Saturation<br>Current Isat ( A )<br>drop30% | RDC (mΩ)<br>MAX |
|-----------------|--------------------------|----------------|--------------------------------|---------------------------------------------|-----------------|
| SMPI15100E-4R7M | 4.7                      | 100KHz/1V      | 29                             | 39.0                                        | 3.8             |
| SMPI15100E-6R8M | 6.8                      | 100KHz/1V      | 26                             | 36.0                                        | 4.6             |
| SMPI15100E-8R2M | 8.2                      | 100KHz/1V      | 24                             | 30.0                                        | 7.5             |
| SMPI15100E-100M | 10.0                     | 100KHz/1V      | 22                             | 26.3                                        | 9.0             |
| SMPI15100E-150M | 15.0                     | 100KHz/1V      | 18                             | 23.0                                        | 12.4            |
| SMPI15100E-220M | 22.0                     | 100KHz/1V      | 14                             | 18.7                                        | 16.0            |
| SMPI15100E-330M | 33.0                     | 100KHz/1V      | 12                             | 16.7                                        | 20.0            |

Notes:

- 1) You require another part number please contact with us.
- 2) Inductance Tolerance  $\pm 20\%$  ; Frequency Test : 100KHz/1.0v
- 3) All test data is referenced to 25°C ambient.
- 4) Irms : DC current (A) that will cause an approximate  $\Delta T$  of 40°C
- 5) Isat : DC current (A) that will cause  $L_o$  to drop approximately 30%
- 6) We can design according to customer's request.



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# SURFACE MOUNT HIGH CURRENT POWER INDUCTORS / SER TYPE

## FEATURES

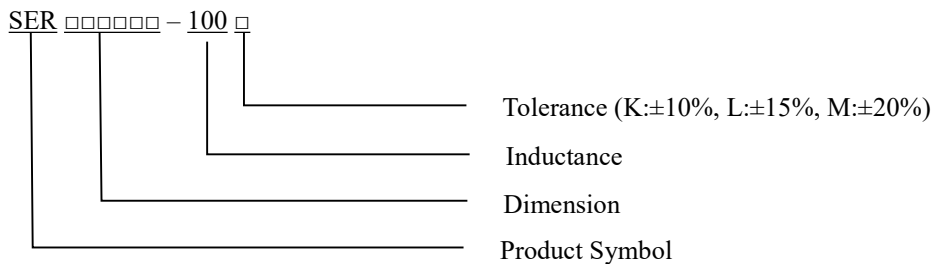
- ◆ Perfect for high current.
- ◆ Extremely low RDC.
- ◆ Low voltage power supply applications.
- ◆ Custom design available.

## APPLICATIONS

- ◆ Power systems.
- ◆ DC/DC converters, etc.



## ORDERING CODE



## SHAPES

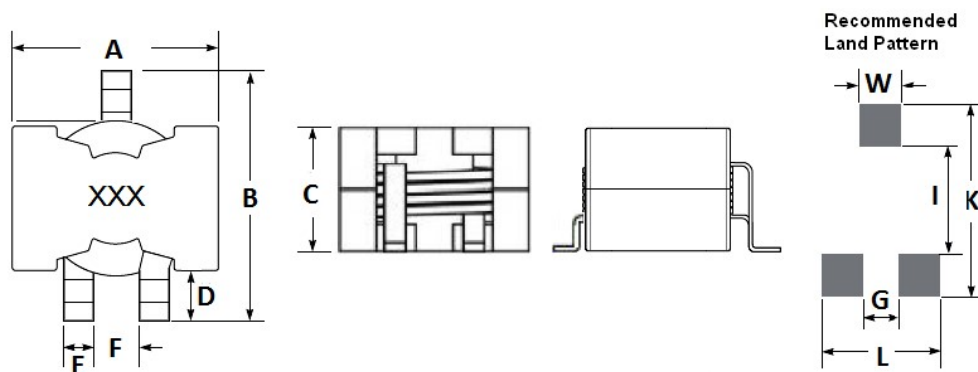


FIG. 1

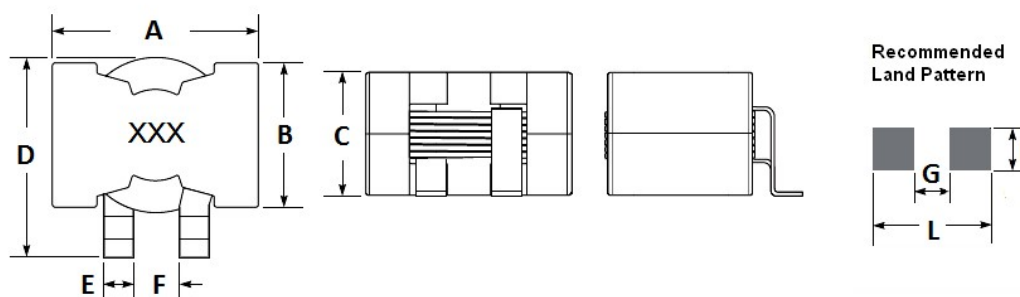


FIG. 2



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## SURFACE MOUNT HIGH CURRENT POWER INDUCTORS / SER TYPE

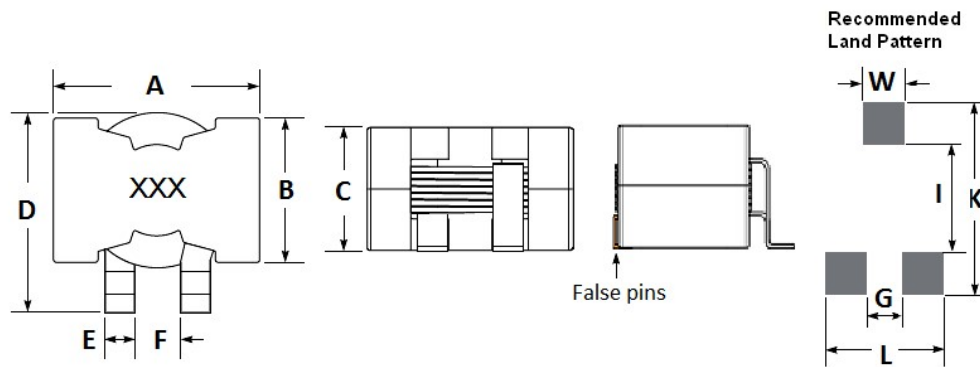


FIG. 3

**DIMENSIONS UNIT: mm (inch)**

| Part No.  | FIG. | A<br>(MAX) | B<br>(MAX) | C<br>(MAX) | D<br>(MAX) | E       | F       | G<br>(REF) | I<br>(REF) | K<br>(REF) | L<br>(REF) | W<br>(REF) |
|-----------|------|------------|------------|------------|------------|---------|---------|------------|------------|------------|------------|------------|
| SER2014T  | 1    | 21.8       | 24.5       | 14.5       | 4.0~7.5    | 2.2~3.8 | 4.0~7.0 | 4.0        | 13.0       | 23.0       | 14.0       | 5.0        |
| SER2817H  | 2    | 27.9       | 19.3       | 17.0       | 28.5       | 3.8~4.0 | 6.6±0.5 | 4.8        | 5.6        | -          | 15.6       | -          |
| SER2915HT | 3    | 27.9       | 19.3       | 15.5       | 28.5       | 3.8~4.0 | 6.6±0.5 | 4.8        | 16.6       | 27.48      | 15.6       | 6.35       |
| SER2918HT | 3    | 27.9       | 19.3       | 17.5       | 28.5       | 3.8~4.0 | 6.6±0.5 | 4.8        | 16.6       | 27.48      | 15.6       | 6.35       |

### ELECTRICAL CHARACTERISTICS FOR SER2014T

| Part No.        | Inductance<br>(uH) | Test Frequency<br>(MHz) | RDC<br>(mΩ) Max | IDC<br>(A) Max |
|-----------------|--------------------|-------------------------|-----------------|----------------|
| SER2014T - R70□ | 0.7                | 500KHz/0.1V             | 0.92            | 75             |
| SER2014T - 1R4□ | 1.4                | 500KHz/0.1V             | 1.19            | 60             |
| SER2014T - 2R2□ | 2.2                | 500KHz/0.1V             | 1.65            | 52             |
| SER2014T - 3R1□ | 3.1                | 500KHz/0.1V             | 2.30            | 45             |
| SER2014T - 4R2□ | 4.2                | 500KHz/0.1V             | 3.35            | 38             |
| SER2014T - 5R5□ | 5.5                | 500KHz/0.1V             | 4.40            | 33             |
| SER2014T - 7R0□ | 7.0                | 500KHz/0.1V             | 6.17            | 30             |
| SER2014T - 8R6□ | 8.6                | 500KHz/0.1V             | 7.91            | 25             |
| SER2014T - 100□ | 10                 | 500KHz/0.1V             | 8.75            | 23             |
| SER2014T - 150□ | 15                 | 500KHz/0.1V             | 9.57            | 21             |
| SER2014T - 220□ | 22                 | 500KHz/0.1V             | 11.71           | 15             |
| SER2014T - 330□ | 33                 | 500KHz/0.1V             | 12.54           | 11             |
| SER2014T - 470□ | 47                 | 500KHz/0.1V             | 13.42           | 8.5            |



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## **SURFACE MOUNT HIGH CURRENT POWER INDUCTORS / SER TYPE**

### **ELECTRICAL CHARACTERISTICS FOR SER2817H**

| Part No.        | Inductance<br>(uH) | Test Frequency<br>(MHz) | RDC<br>(mΩ) Max | IDC<br>(A) Max |
|-----------------|--------------------|-------------------------|-----------------|----------------|
| SER2817H - 3R3□ | 3.3                | 500KHz/0.1V             | 2.8             | 92.5           |
| SER2817H - 4R7□ | 4.7                | 500KHz/0.1V             | 2.8             | 61.2           |
| SER2817H - 6R8□ | 6.8                | 500KHz/0.1V             | 2.8             | 45.0           |
| SER2817H - 100□ | 10                 | 500KHz/0.1V             | 2.8             | 31.2           |
| SER2817H - 150□ | 15                 | 500KHz/0.1V             | 2.8             | 21.2           |
| SER2817H - 220□ | 22                 | 500KHz/0.1V             | 2.8             | 14.0           |
| SER2817H - 330□ | 33                 | 500KHz/0.1V             | 2.8             | 8.7            |

### **ELECTRICAL CHARACTERISTICS FOR SER2915HT**

| Part No.         | Inductance<br>(uH) | Test Frequency<br>(MHz) | RDC<br>(mΩ) Max | IDC<br>(A) Max |
|------------------|--------------------|-------------------------|-----------------|----------------|
| SER2915HT - 3R3□ | 3.3                | 500KHz/0.1V             | 1.75            | 66.9           |
| SER2915HT - 4R7□ | 4.7                | 500KHz/0.1V             | 1.75            | 48.0           |
| SER2915HT - 6R8□ | 6.8                | 500KHz/0.1V             | 1.75            | 34.5           |
| SER2915HT - 100□ | 10                 | 500KHz/0.1V             | 1.75            | 21.5           |
| SER2915HT - 150□ | 15                 | 500KHz/0.1V             | 1.75            | 14.0           |
| SER2915HT - 220□ | 22                 | 500KHz/0.1V             | 1.75            | 8.6            |
| SER2915HT - 330□ | 33                 | 500KHz/0.1V             | 1.75            | 5.1            |

### **ELECTRICAL CHARACTERISTICS FOR SER2918HT**

| Part No.        | Inductance<br>(uH) | Test Frequency<br>(MHz) | RDC<br>(mΩ) Max | IDC<br>(A) Max |
|-----------------|--------------------|-------------------------|-----------------|----------------|
| SER2918H - 3R3□ | 3.3                | 500KHz/0.1V             | 2.8             | 92.5           |
| SER2918H - 4R7□ | 4.7                | 500KHz/0.1V             | 2.8             | 61.2           |
| SER2918H - 6R8□ | 6.8                | 500KHz/0.1V             | 2.8             | 45.0           |
| SER2918H - 100□ | 10                 | 500KHz/0.1V             | 2.8             | 31.2           |
| SER2918H - 150□ | 15                 | 500KHz/0.1V             | 2.8             | 21.2           |
| SER2918H - 220□ | 22                 | 500KHz/0.1V             | 2.8             | 14.0           |
| SER2918H - 330□ | 33                 | 500KHz/0.1V             | 2.8             | 8.7            |



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# HIGH CURRENT POWER INDUCTORS / THT TYPE

## FEATURES

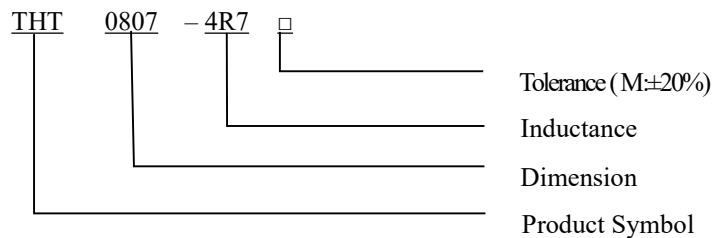
- ◆ High current
- ◆ High energy storage and low DCR.

## APPLICATIONS

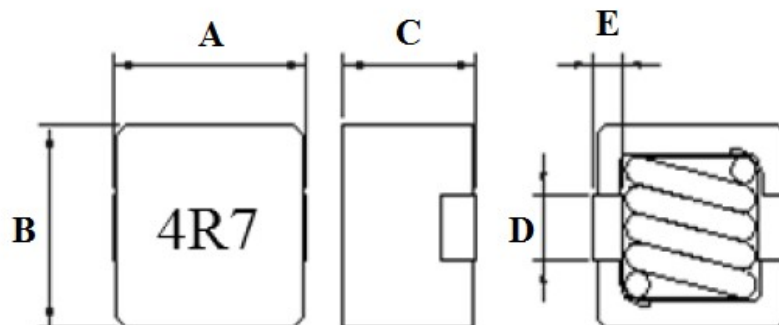
- ◆ Embedded power modules.
- ◆ Server motherboards.
- ◆ Power supplies.
- ◆ Industrial systems.
- ◆ Various categories of consumer electronics.



## ORDERING CODE



## SHAPES



## DIMENSIONS (UNIT: mm)

| Part No. | A(Max) | B(Max) | C(Max) | D(Ref) | D(Ref) |
|----------|--------|--------|--------|--------|--------|
| THT 0807 | 8.4    | 8.8    | 7.5    | 2.3    | 1.5    |
| THT 1009 | 10.4   | 11.3   | 9.8    | 3.0    | 1.6    |
| THT 1210 | 11.8   | 12.5   | 10.0   | 3.5    | 2.0    |



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## HIGH CURRENT POWER INDUCTORS / THT TYPE

### ELECTRICAL CHARACTERISTICS FOR THT 0807

| Part No.     | Inductance (uH) | Test Frequency | RDC (mΩ) MAX | IDC (A) MAX |
|--------------|-----------------|----------------|--------------|-------------|
| THT0807-R30M | 0.30            | 100KHz/0.1V    | 1.54         | 36.0        |
| THT0807-R47M | 0.47            | 100KHz/0.1V    | 1.89         | 32.0        |
| THT0807-R56M | 0.56            | 100KHz/0.1V    | 2.00         | 28.0        |
| THT0807-R68M | 0.68            | 100KHz/0.1V    | 2.10         | 23.5        |
| THT0807-R82M | 0.82            | 100KHz/0.1V    | 3.25         | 23.0        |
| THT0807-1R0M | 1.00            | 100KHz/0.1V    | 3.80         | 22.0        |
| THT0807-1R5M | 1.50            | 100KHz/0.1V    | 4.84         | 18.5        |
| THT0807-2R2M | 2.20            | 100KHz/0.1V    | 5.60         | 12.5        |
| THT0807-3R3M | 3.30            | 100KHz/0.1V    | 7.15         | 8.5         |
| THT0807-4R7M | 4.70            | 100KHz/0.1V    | 13.64        | 8.0         |
| THT0807-6R8M | 6.80            | 100KHz/0.1V    | 24.42        | 7.5         |
| THT0807-100M | 10.0            | 100KHz/0.1V    | 44.55        | 6.0         |

### ELECTRICAL CHARACTERISTICS FOR THT 1009

| Part No.     | Inductance (uH) | Test Frequency | RDC (mΩ) MAX | IDC (A) MAX |
|--------------|-----------------|----------------|--------------|-------------|
| THT1009-R22M | 0.22            | 100KHz/0.1V    | 0.66         | 58.0        |
| THT1009-R33M | 0.33            | 100KHz/0.1V    | 0.70         | 50.0        |
| THT1009-R47M | 0.47            | 100KHz/0.1V    | 0.88         | 47.0        |
| THT1009-R68M | 0.68            | 100KHz/0.1V    | 1.49         | 34.0        |
| THT1009-R82M | 0.82            | 100KHz/0.1V    | 1.52         | 32.0        |
| THT1009-1R0M | 1.00            | 100KHz/0.1V    | 2.10         | 27.5        |
| THT1009-1R5M | 1.50            | 100KHz/0.1V    | 2.75         | 27.0        |
| THT1009-2R2M | 2.20            | 100KHz/0.1V    | 4.07         | 22.0        |
| THT1009-3R3M | 3.30            | 100KHz/0.1V    | 6.94         | 15.5        |
| THT1009-4R7M | 4.70            | 100KHz/0.1V    | 9.02         | 15.0        |
| THT1009-6R8M | 6.80            | 100KHz/0.1V    | 14.52        | 11.0        |
| THT1009-8R2M | 8.20            | 100KHz/0.1V    | 18.52        | 9.0         |
| THT1009-100M | 10.0            | 100KHz/0.1V    | 24.50        | 7.0         |



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## HIGH CURRENT POWER INDUCTORS / THT TYPE

### ELECTRICAL CHARACTERISTICS FOR THT 1210

| Part No.     | Inductance (uH) | Test Frequency | RDC (mΩ) MAX | IDC (A) MAX |
|--------------|-----------------|----------------|--------------|-------------|
| THT1210-R22M | 0.22            | 100KHz/0.1V    | 0.58         | 60.0        |
| THT1210-R33M | 0.33            | 100KHz/0.1V    | 0.62         | 55.0        |
| THT1210-R47M | 0.47            | 100KHz/0.1V    | 0.79         | 48.0        |
| THT1210-R68M | 0.68            | 100KHz/0.1V    | 0.85         | 38.0        |
| THT1210-R82M | 0.82            | 100KHz/0.1V    | 1.36         | 36.0        |
| THT1210-1R0M | 1.00            | 100KHz/0.1V    | 1.48         | 32.0        |
| THT1210-1R5M | 1.50            | 100KHz/0.1V    | 2.31         | 27.0        |
| THT1210-2R2M | 2.20            | 100KHz/0.1V    | 3.36         | 23.0        |
| THT1210-3R3M | 3.30            | 100KHz/0.1V    | 5.84         | 20.0        |
| THT1210-4R7M | 4.70            | 100KHz/0.1V    | 7.99         | 17.0        |
| THT1210-6R8M | 6.80            | 100KHz/0.1V    | 11.20        | 13.0        |
| THT1210-8R2M | 8.20            | 100KHz/0.1V    | 13.50        | 12.0        |
| THT1210-100M | 10.0            | 100KHz/0.1V    | 15.84        | 10.0        |



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# HIGH CURRENT POWER INDUCTORS / SIC TYPE

## FEATURES

- ◆ Clip Plated Type, Low Profile.
- ◆ High power, High saturation inductors.
- ◆ Ideal inductors for DC-DC conversion.
- ◆ Available on tape and reel for auto surface mounting.



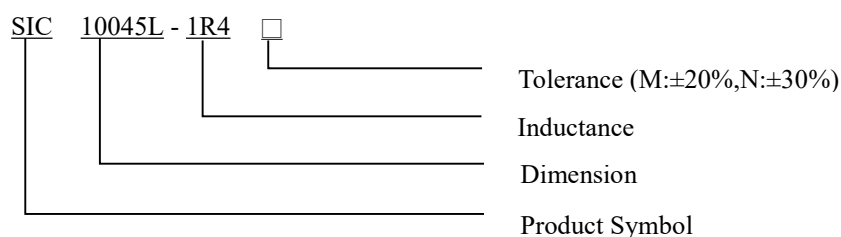
## APPLICATIONS

- ◆ Servers.
- ◆ Power systems.
- ◆ DC/DC converters.
- ◆ Various categories of consumer electronics.

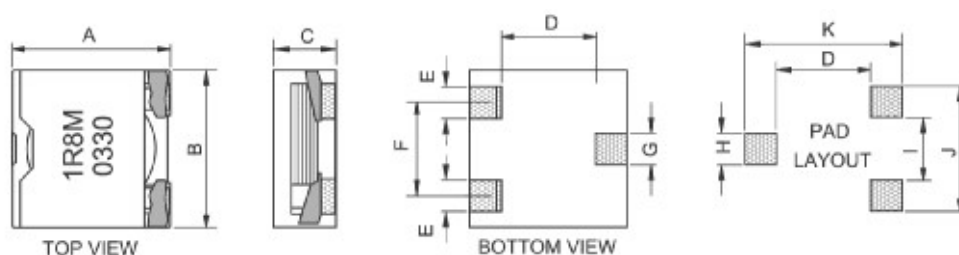
## INDUCTANCE AND RATED CURRENT RANGES

- ◆ SIC10045L 0.36~4.3uH 18.0~5.0A
- ◆ SIC10056L 0.36~8.8uH 19.0~4.8A
- ◆ SIC10056H 0.15~3.0uH 19.0~4.9A
- ◆ SIC12057 1.5~10.0uH 14.0~5.0A
- ◆ SIC12057U 0.35~5.6uH 18.5~7.6A
- ◆ SIC13050H 0.3~6.0uH 18.5~6.5A

## ORDERING CODE



## SHAPES



## DIMENSIONS (UNIT: mm)

| Part No. | A<br>(Max) | B<br>(Max) | C<br>(Max) | D<br>(Ref) | E<br>(Ref) | F<br>(Ref) | G<br>(Ref) | H<br>(Ref) | I<br>(Ref) | J<br>(Ref) | K<br>(Ref) |
|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| SIC10045 | 10.4       | 10.4       | 4.5        | 6.7        | 2.6        | 5.5        | 1.4        | 2.0        | 2.5        | 8.5        | 11.0       |
| SIC10056 | 10.4       | 10.4       | 5.6        | 6.7        | 2.6        | 5.5        | 1.4        | 2.0        | 2.5        | 8.5        | 11.0       |
| SIC12057 | 12.9       | 12.9       | 5.7        | 8.2        | 2.6        | 7.0        | 2.5        | 3.0        | 4.0        | 10.0       | 13.5       |
| SIC13050 | 13.9       | 13.9       | 5.0        | 9.6        | 2.6        | 7.2        | 2.5        | 2.6        | 4.4        | 10.0       | 15.0       |



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## HIGH CURRENT POWER INDUCTORS / SIC TYPE

| Part No. | Inductance<br>(uH) | RDC (mΩ) Max |        |        | IDC (A) Max |        |        |
|----------|--------------------|--------------|--------|--------|-------------|--------|--------|
|          |                    | 10045L       | 10056L | 10056H | 10045L      | 10056L | 10056H |
| R15      | 0.15               |              |        | 1.7    |             |        | 19.0   |
| R22      | 0.22               |              |        |        |             |        |        |
| R30      | 0.30               |              |        | 2.4    |             |        | 17.7   |
| R36      | 0.36               | 2.2          | 1.7    |        | 18.0        | 19.0   |        |
| R45      | 0.45               |              |        |        |             |        |        |
| R50      | 0.50               |              |        | 4.1    |             |        | 13.0   |
| R80      | 0.80               | 3.7          | 2.4    | 5.3    | 13.4        | 16.0   | 11.2   |
| 1R2      | 1.20               |              |        | 7.5    |             |        | 9.0    |
| 1R3      | 1.30               |              |        |        |             |        |        |
| 1R4      | 1.40               | 5.9          | 4.1    |        | 10.2        | 12.0   |        |
| 1R5      | 1.50               |              |        | 10.5   |             |        | 7.8    |
| 1R8      | 1.80               |              |        |        |             |        |        |
| 2R0      | 2.00               |              |        | 12.4   |             |        | 7.4    |
| 2R2      | 2.20               | 11.8         | 5.3    |        | 7.3         | 9.6    |        |
| 2R5      | 2.50               |              |        |        |             |        |        |
| 3R0      | 3.00               |              |        | 23.8   |             |        | 4.9    |
| 3R2      | 3.20               | 18.6         | 7.5    |        | 5.4         | 7.8    |        |
| 4R0      | 4.00               |              |        |        |             |        |        |
| 4R3      | 4.30               | 21.8         | 10.5   |        | 5.0         | 6.8    |        |
| 5R0      | 5.00               |              |        |        |             |        |        |
| 5R7      | 5.70               |              | 12.4   |        |             | 5.8    |        |
| 7R2      | 7.20               |              | 18.0   |        |             | 5.3    |        |
| 8R8      | 8.80               |              | 23.8   |        |             | 4.8    |        |

★ Test Frequency: 100KHz / 1V



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## HIGH CURRENT POWER INDUCTORS / SIC TYPE

| Part No. | Inductance<br>(uH) | RDC (mΩ) Max |        |        | IDC (A) Max |        |        |
|----------|--------------------|--------------|--------|--------|-------------|--------|--------|
|          |                    | 12057        | 12057U | 13050H | 12057       | 12057U | 13050H |
| R30      | 0.30               |              |        | 1.9    |             |        | 18.5   |
| R35      | 0.35               |              | 1.8    |        |             | 18.5   |        |
| R40      | 0.40               |              |        |        |             |        |        |
| R66      | 0.66               |              |        | 2.5    |             |        | 17.0   |
| R80      | 0.80               |              | 2.5    |        |             | 16.5   |        |
| R90      | 0.90               |              |        |        |             |        |        |
| 1R0      | 1.00               |              |        |        |             |        |        |
| 1R2      | 1.20               |              |        | 3.7    |             |        | 15.0   |
| 1R4      | 1.40               |              | 3.4    |        |             | 15.5   |        |
| 1R5      | 1.50               | 2.5          |        |        | 14.0        |        |        |
| 1R6      | 1.60               |              |        |        |             |        |        |
| 1R8      | 1.80               |              |        | 6.6    |             |        | 10.5   |
| 2R2      | 2.20               |              | 5.4    |        |             | 12.5   |        |
| 2R5      | 2.50               | 3.4          |        |        | 10.0        |        |        |
| 2R7      | 2.70               |              |        | 10.8   |             |        | 8.0    |
| 2R8      | 2.80               |              |        |        |             |        |        |
| 3R2      | 3.20               |              | 8.0    |        |             | 9.9    |        |
| 3R6      | 3.60               |              |        | 12.0   |             |        | 7.5    |
| 4R0      | 4.00               | 8.0          |        |        | 8.3         |        |        |
| 4R3      | 4.30               |              | 11.4   |        |             | 8.2    |        |
| 4R8      | 4.80               |              |        | 16.3   |             |        | 7.0    |
| 5R6      | 5.60               |              | 13.5   |        |             | 7.6    |        |
| 6R0      | 6.00               | 8.0          |        | 18.4   | 6.7         |        | 6.5    |
| 6R4      | 6.40               |              |        |        |             |        |        |
| 7R2      | 7.20               |              |        |        |             |        |        |
| 8R0      | 8.00               |              |        |        |             |        |        |
| 8R2      | 8.20               | 11.4         |        |        | 5.8         |        |        |
| 100      | 10.00              | 13.5         |        |        | 5.0         |        |        |

★ Test Frequency: 100KHz / 1V



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# SMD MULTILAYER FERRITE CHIP BEADS / CB TYPE

## FEATURES

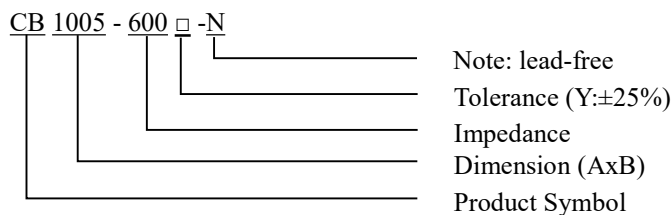
- ◆ Suitable for flow and reflow soldering
- ◆ Impedance over a broad frequency range
- ◆ Standard type used to suppress lower-frequency, lower current signals

## APPLICATIONS

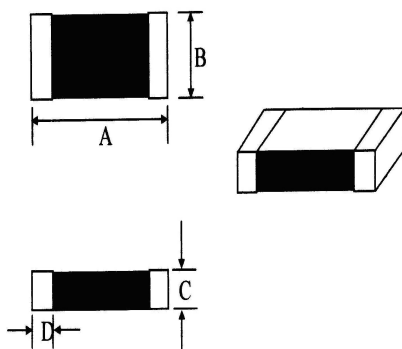
- ◆ I/O interfaces.
- ◆ Computer motherboards.
- ◆ Various categories of consumer electronics.



## ORDERING CODE



## SHAPE



## DIMENSIONS UNIT: mm (inch)

| Part No.       | A          | B          | C          | D           |
|----------------|------------|------------|------------|-------------|
| CB 0603 (0201) | 0.6 ± 0.03 | 0.3 ± 0.03 | 0.3 ± 0.03 | 0.10 ~ 0.20 |
| CB 1005 (0402) | 1.0 ± 0.10 | 0.5 ± 0.1  | 0.5 ± 0.1  | 0.25 ± 0.15 |
| CB 1608 (0603) | 1.6 ± 0.20 | 0.8 ± 0.2  | 0.8 ± 0.2  | 0.30 ± 0.20 |
| CB 2012 (0805) | 2.0 ± 0.20 | 1.2 ± 0.2  | 0.9 ± 0.2  | 0.50 ± 0.30 |
| CB 3216 (1206) | 3.2 ± 0.20 | 1.6 ± 0.2  | 1.1 ± 0.2  | 0.50 ± 0.30 |
| CB 4516 (1806) | 4.5 ± 0.20 | 1.6 ± 0.2  | 1.6 ± 0.2  | 0.50 ± 0.30 |



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## SMD MULTILAYER FERRITE CHIP BEADS / CB TYPE

### ELECTRICAL CHARACTERISTICS

| Part No.      | Impedance<br>( $\Omega$ )<br>At 100MHz | DCR<br>( $\Omega$ )<br>Max | IDC<br>(mA)<br>Max | Part No.      | Impedance<br>( $\Omega$ )<br>At 100MHz | DCR<br>( $\Omega$ )<br>Max | IDC<br>(mA)<br>Max |
|---------------|----------------------------------------|----------------------------|--------------------|---------------|----------------------------------------|----------------------------|--------------------|
| CB0603-40□-N  | 40                                     | 0.30                       | 300                | CB2012-110□-N | 11                                     | 0.15                       | 600                |
| CB0603-50□-N  | 50                                     | 0.30                       | 300                | CB2012-320□-N | 32                                     | 0.15                       | 400                |
| CB0603-60□-N  | 60                                     | 0.35                       | 300                | CB2012-800□-N | 80                                     | 0.15                       | 300                |
| CB0603-70□-N  | 70                                     | 0.35                       | 300                | CB2012-121□-N | 120                                    | 0.25                       | 300                |
| CB0603-121□-N | 120                                    | 0.45                       | 200                | CB2012-151□-N | 150                                    | 0.25                       | 300                |
| CB0603-151□-N | 150                                    | 0.50                       | 200                | CB2012-221□-N | 220                                    | 0.30                       | 200                |
| CB0603-221□-N | 220                                    | 0.75                       | 200                | CB2012-301□-N | 300                                    | 0.30                       | 200                |
| CB0603-301□-N | 300                                    | 0.90                       | 150                | CB2012-501□-N | 500                                    | 0.30                       | 200                |
| CB1005-300□-N | 30                                     | 0.30                       | 500                | CB2012-601□-N | 600                                    | 0.35                       | 200                |
| CB1005-600□-N | 60                                     | 0.40                       | 200                | CB2012-102□-N | 1000                                   | 0.45                       | 200                |
| CB1005-121□-N | 120                                    | 0.50                       | 200                | CB3216-310□-N | 31                                     | 0.20                       | 500                |
| CB1005-221□-N | 220                                    | 0.70                       | 100                | CB3216-600□-N | 60                                     | 0.30                       | 400                |
| CB1005-301□-N | 300                                    | 0.80                       | 100                | CB3216-900□-N | 90                                     | 0.30                       | 300                |
| CB1005-451□-N | 450                                    | 0.90                       | 100                | CB3216-151□-N | 150                                    | 0.30                       | 300                |
| CB1005-601□-N | 600                                    | 1.00                       | 100                | CB3216-301□-N | 300                                    | 0.30                       | 300                |
| CB1005-102□-N | 1000                                   | 1.50                       | 50                 | CB3216-601□-N | 600                                    | 0.30                       | 200                |
| CB1608-090□-N | 9                                      | 0.20                       | 500                | CB3216-122□-N | 1200<br>(at 50 MHz)                    | 0.50                       | 100                |
| CB1608-300□-N | 30                                     | 0.20                       | 400                | CB3216-152□-N | 1500<br>(at 50 MHz)                    | 0.50                       | 100                |
| CB1608-600□-N | 60                                     | 0.20                       | 300                | CB3216-202□-N | 2000<br>(at 30 MHz)                    | 0.60                       | 100                |
| CB1608-800□-N | 80                                     | 0.20                       | 300                | CB4516-600□-N | 60                                     | 0.10                       | 500                |
| CB1608-121□-N | 120                                    | 0.20                       | 200                | CB4516-151□-N | 150                                    | 0.30                       | 300                |
| CB1608-221□-N | 220                                    | 0.20                       | 200                |               |                                        |                            |                    |
| CB1608-301□-N | 300                                    | 0.35                       | 200                |               |                                        |                            |                    |
| CB1608-451□-N | 450                                    | 0.40                       | 200                |               |                                        |                            |                    |
| CB1608-601□-N | 600                                    | 0.45                       | 200                |               |                                        |                            |                    |
| CB1608-102□-N | 1000                                   | 0.60                       | 100                |               |                                        |                            |                    |



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# LARGE CURRENT MULTILAYER CHIP BEADS / LCB TYPE

## FEATURES

- ◆ Low DCR, small package
- ◆ High current handling capacity
- ◆ Nickel barrier terminations provide excellent solder heat resistance
- ◆ Suitable for flow and reflow soldering and high current applications

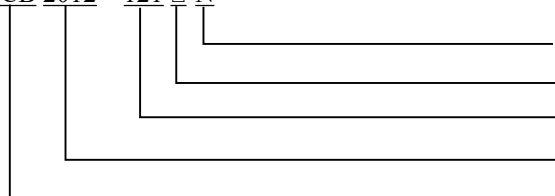


## APPLICATIONS

- ◆ I/O interfaces.
- ◆ Computer motherboards.
- ◆ Various categories of consumer electronics.

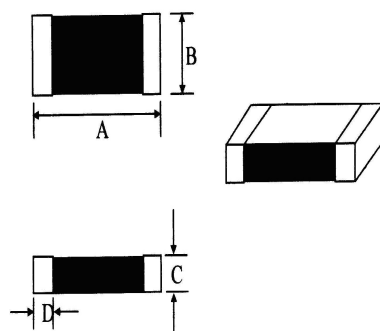
## ORDERING CODE

LCB 2012 – 121 □ -N



Note: lead-free  
Tolerance (Y:±25%)  
Inductance  
Dimension (AxB)  
Product Symbol

## SHAPE



**DIMENSIONS UNIT: mm (inch)**

| Part No.        | A         | B         | C         | D         |
|-----------------|-----------|-----------|-----------|-----------|
| LCB 1608 (0603) | 1.6 ± 0.2 | 0.8 ± 0.2 | 0.8 ± 0.2 | 0.3 ± 0.2 |
| LCB 2012 (0805) | 2.0 ± 0.2 | 1.2 ± 0.2 | 0.9 ± 0.2 | 0.5 ± 0.3 |
| LCB 3216 (1206) | 3.2 ± 0.2 | 1.6 ± 0.2 | 1.1 ± 0.2 | 0.5 ± 0.3 |
| LCB 4516 (1806) | 4.5 ± 0.2 | 1.6 ± 0.2 | 1.6 ± 0.2 | 0.5 ± 0.3 |
| LCB 4532 (1812) | 4.5 ± 0.2 | 3.2 ± 0.2 | 1.5 ± 0.2 | 0.5 ± 0.3 |



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## LARGE CURRENT MULTILAYER CHIP BEADS / LCB TYPE

### ELECTRICAL CHARACTERISTICS

| Part No.         | Impedance<br>( $\Omega$ )<br>AT 100MHz | DC Resistance<br>( $\Omega$ )<br>Max | Rated Current<br>(A)<br>Max |
|------------------|----------------------------------------|--------------------------------------|-----------------------------|
| LCB 1608-100 □-N | 10                                     | 0.030                                | 4.0                         |
| LCB 1608-300 □-N | 30                                     | 0.050                                | 3.0                         |
| LCB 1608-600 □-N | 60                                     | 0.050                                | 3.0                         |
| LCB 1608-121 □-N | 120                                    | 0.100                                | 2.0                         |
| LCB 1608-221 □-N | 220                                    | 0.150                                | 1.5                         |
| LCB 1608-301 □-N | 300                                    | 0.150                                | 1.5                         |
| LCB 1608-601 □-N | 600                                    | 0.300                                | 1.0                         |
| LCB 2012-110 □-N | 11                                     | 0.010                                | 6.0                         |
| LCB 2012-170 □-N | 17                                     | 0.010                                | 6.0                         |
| LCB 2012-220 □-N | 22                                     | 0.010                                | 6.0                         |
| LCB 2012-300 □-N | 30                                     | 0.030                                | 4.0                         |
| LCB 2012-600 □-N | 60                                     | 0.050                                | 3.0                         |
| LCB 2012-121 □-N | 120                                    | 0.080                                | 2.5                         |
| LCB 2012-221 □-N | 220                                    | 0.100                                | 2.0                         |
| LCB 2012-301 □-N | 300                                    | 0.100                                | 2.0                         |
| LCB 2012-601 □-N | 600                                    | 0.300                                | 1.0                         |
| LCB 2012-102 □-N | 1000                                   | 0.300                                | 1.0                         |
| LCB 3216-310 □-N | 31                                     | 0.010                                | 6.0                         |
| LCB 3216-500 □-N | 50                                     | 0.025                                | 3.0                         |
| LCB 3216-121 □-N | 120                                    | 0.080                                | 2.5                         |
| LCB 3216-301 □-N | 300                                    | 0.080                                | 2.5                         |
| LCB 3216-601 □-N | 600                                    | 0.100                                | 2.0                         |
| LCB 3216-102 □-N | 1000                                   | 0.200                                | 1.5                         |
| LCB 4516-600 □-N | 60                                     | 0.010                                | 6.0                         |
| LCB 4516-750 □-N | 75                                     | 0.050                                | 3.0                         |
| LCB 4516-800 □-N | 80                                     | 0.050                                | 3.0                         |
| LCB 4516-471 □-N | 470                                    | 0.090                                | 2.0                         |
| LCB 4532-700 □-N | 70                                     | 0.030                                | 6.0                         |
| LCB 4532-121 □-N | 120                                    | 0.050                                | 3.0                         |



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## MULTILAYER CHIP INDUCTORS / CL TYPE

### FEATURES

- ◆ High mounting density of compact circuit due to crosstalk elimination that results from a closed magnetic flux in a ferrite material
- ◆ Suitable for flow and re-flow soldering
- ◆ Available in 3 sizes

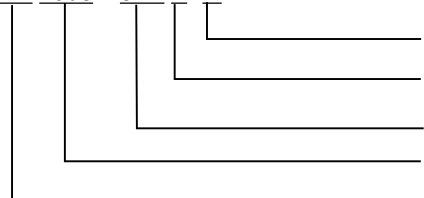


### APPLICATIONS

- ◆ Industrial systems.
- ◆ Power modules.
- ◆ Communication devices.
- ◆ AI systems.
- ◆ Various categories of consumer electronics.

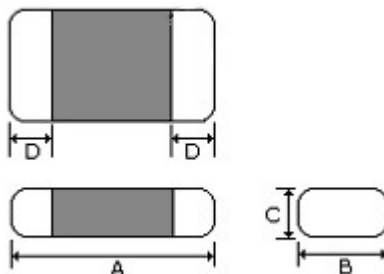
### ORDERING CODE

CL 1608 – 8R2 □- N



Note: lead-free  
Tolerance (K:±10%, M:±20%)  
Inductance  
Dimension (AxB)  
Product Symbol

### SHAPES



### DIMENSIONS UNIT: mm (inch)

| Part No.       | Dimensions  |             |             |             |
|----------------|-------------|-------------|-------------|-------------|
|                | A           | B           | C           | D           |
| CL 1608 (0603) | 1.60 ± 0.15 | 0.80 ± 0.15 | 0.80 ± 0.15 | 0.30 ± 0.20 |
| CL 2012 (0805) | 2.00 ± 0.20 | 1.25 ± 0.20 | 0.85 ± 0.20 | 0.50 ± 0.30 |
| CL 3216 (1206) | 3.20 ± 0.20 | 1.60 ± 0.20 | 1.10 ± 0.30 | 0.50 ± 0.30 |



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## MULTILAYER CHIP INDUCTORS / CL TYPE

### ELECTRICAL CHARACTERISTICS FOR CL1608

| Part No.        | Inductance<br>(uH) | Test Freq.<br>(MHz)<br>60mV | Q<br>Min | Self Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|-----------------|--------------------|-----------------------------|----------|-------------------------------------|--------------------------|---------------------------|
| CL 1608-47N □-N | 0.047              | 50                          | 10       | 260                                 | 0.30                     | 50                        |
| CL 1608-68N □-N | 0.068              | 50                          | 10       | 250                                 | 0.30                     | 50                        |
| CL 1608-82N □-N | 0.082              | 50                          | 10       | 245                                 | 0.30                     | 50                        |
| CL 1608-R10 □-N | 0.10               | 25                          | 15       | 240                                 | 0.50                     | 50                        |
| CL 1608-R12 □-N | 0.12               | 25                          | 15       | 205                                 | 0.50                     | 50                        |
| CL 1608-R15 □-N | 0.15               | 25                          | 15       | 180                                 | 0.60                     | 50                        |
| CL 1608-R18 □-N | 0.18               | 25                          | 15       | 165                                 | 0.60                     | 50                        |
| CL 1608-R22 □-N | 0.22               | 25                          | 15       | 150                                 | 0.80                     | 50                        |
| CL 1608-R27 □-N | 0.27               | 25                          | 15       | 136                                 | 0.80                     | 50                        |
| CL 1608-R33 □-N | 0.33               | 25                          | 15       | 125                                 | 0.85                     | 35                        |
| CL 1608-R39 □-N | 0.39               | 25                          | 15       | 110                                 | 1.00                     | 35                        |
| CL 1608-R47 □-N | 0.47               | 25                          | 15       | 105                                 | 1.35                     | 35                        |
| CL 1608-R56 □-N | 0.56               | 25                          | 15       | 95                                  | 1.50                     | 35                        |
| CL 1608-R68 □-N | 0.68               | 25                          | 15       | 85                                  | 1.70                     | 35                        |
| CL 1608-R82 □-N | 0.82               | 25                          | 15       | 75                                  | 2.10                     | 35                        |
| CL 1608-1R0 □-N | 1.0                | 10                          | 30       | 65                                  | 0.60                     | 25                        |
| CL 1608-1R2 □-N | 1.2                | 10                          | 30       | 60                                  | 0.80                     | 25                        |
| CL 1608-1R5 □-N | 1.5                | 10                          | 30       | 55                                  | 0.80                     | 25                        |
| CL 1608-1R8 □-N | 1.8                | 10                          | 30       | 50                                  | 0.95                     | 25                        |
| CL 1608-2R2 □-N | 2.2                | 10                          | 30       | 45                                  | 1.15                     | 15                        |
| CL 1608-2R7 □-N | 2.7                | 10                          | 30       | 40                                  | 1.35                     | 15                        |
| CL 1608-3R3 □-N | 3.3                | 10                          | 30       | 38                                  | 1.55                     | 15                        |
| CL 1608-3R9 □-N | 3.9                | 10                          | 30       | 36                                  | 1.70                     | 15                        |
| CL 1608-4R7 □-N | 4.7                | 10                          | 30       | 33                                  | 2.10                     | 15                        |
| CL 1608-5R6 □-N | 5.6                | 4                           | 30       | 22                                  | 1.55                     | 15                        |
| CL 1608-6R8 □-N | 6.8                | 4                           | 30       | 20                                  | 1.70                     | 15                        |
| CL 1608-8R2 □-N | 8.2                | 4                           | 30       | 18                                  | 2.10                     | 15                        |
| CL 1608-100 □-N | 10                 | 2                           | 30       | 17                                  | 2.55                     | 15                        |



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## MULTILAYER CHIP INDUCTORS / CL TYPE

### ELECTRICAL CHARACTERISTICS FOR CL2012

| Part No.        | Inductance<br>(uH) | Test Freq.<br>(MHz)<br>60mV | Q<br>Min | Self Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|-----------------|--------------------|-----------------------------|----------|-------------------------------------|--------------------------|---------------------------|
| CL 2012-47N □-N | 0.047              | 50                          | 15       | 320                                 | 0.20                     | 300                       |
| CL 2012-68N □-N | 0.068              | 50                          | 15       | 280                                 | 0.20                     | 300                       |
| CL 2012-82N □-N | 0.082              | 50                          | 15       | 255                                 | 0.20                     | 300                       |
| CL 2012-R10 □-N | 0.10               | 25                          | 20       | 235                                 | 0.30                     | 250                       |
| CL 2012-R12 □-N | 0.12               | 25                          | 20       | 220                                 | 0.30                     | 250                       |
| CL 2012-R15 □-N | 0.15               | 25                          | 20       | 200                                 | 0.40                     | 250                       |
| CL 2012-R18 □-N | 0.18               | 25                          | 20       | 185                                 | 0.40                     | 250                       |
| CL 2012-R22 □-N | 0.22               | 25                          | 20       | 170                                 | 0.50                     | 250                       |
| CL 2012-R27 □-N | 0.27               | 25                          | 20       | 150                                 | 0.50                     | 250                       |
| CL 2012-R33 □-N | 0.33               | 25                          | 20       | 145                                 | 0.55                     | 250                       |
| CL 2012-R39 □-N | 0.39               | 25                          | 25       | 135                                 | 0.65                     | 200                       |
| CL 2012-R47 □-N | 0.47               | 25                          | 25       | 125                                 | 0.65                     | 200                       |
| CL 2012-R56 □-N | 0.56               | 25                          | 25       | 115                                 | 0.75                     | 150                       |
| CL 2012-R68 □-N | 0.68               | 25                          | 25       | 105                                 | 0.80                     | 150                       |
| CL 2012-R82 □-N | 0.82               | 25                          | 25       | 100                                 | 1.00                     | 150                       |
| CL 2012-1R0 □-N | 1.0                | 10                          | 45       | 75                                  | 0.40                     | 50                        |
| CL 2012-1R2 □-N | 1.2                | 10                          | 45       | 65                                  | 0.50                     | 50                        |
| CL 2012-1R5 □-N | 1.5                | 10                          | 45       | 60                                  | 0.50                     | 50                        |
| CL 2012-1R8 □-N | 1.8                | 10                          | 45       | 55                                  | 0.60                     | 50                        |
| CL 2012-2R2 □-N | 2.2                | 10                          | 45       | 50                                  | 0.65                     | 30                        |
| CL 2012-2R7 □-N | 2.7                | 10                          | 45       | 45                                  | 0.75                     | 30                        |
| CL 2012-3R3 □-N | 3.3                | 10                          | 45       | 41                                  | 0.80                     | 30                        |
| CL 2012-3R9 □-N | 3.9                | 10                          | 45       | 38                                  | 0.90                     | 30                        |
| CL 2012-4R7 □-N | 4.7                | 10                          | 45       | 35                                  | 1.00                     | 30                        |
| CL 2012-5R6 □-N | 5.6                | 4                           | 45       | 32                                  | 0.90                     | 15                        |
| CL 2012-6R8 □-N | 6.8                | 4                           | 45       | 29                                  | 1.00                     | 15                        |
| CL 2012-8R2 □-N | 8.2                | 4                           | 45       | 26                                  | 1.10                     | 15                        |
| CL 2012-100 □-N | 10                 | 2                           | 45       | 24                                  | 1.15                     | 15                        |



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## MULTILAYER CHIP INDUCTORS / CL TYPE

### ELECTRICAL CHARACTERISTICS FOR CL3216

| Part No.        | Inductance<br>(uH) | Test Freq.<br>(MHz) | Q<br>Min | Self Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|-----------------|--------------------|---------------------|----------|-------------------------------------|--------------------------|---------------------------|
| CL 3216-47N □-N | 0.047              | 50                  | 20       | 320                                 | 0.15                     | 300                       |
| CL 3216-68N □-N | 0.068              | 50                  | 20       | 280                                 | 0.25                     | 300                       |
| CL 3216-82N □-N | 0.082              | 50                  | 20       | 260                                 | 0.25                     | 300                       |
| CL 3216-R10 □-N | 0.10               | 25                  | 25       | 235                                 | 0.25                     | 250                       |
| CL 3216-R12 □-N | 0.12               | 25                  | 25       | 220                                 | 0.30                     | 250                       |
| CL 3216-R15 □-N | 0.15               | 25                  | 25       | 200                                 | 0.30                     | 250                       |
| CL 3216-R18 □-N | 0.18               | 25                  | 25       | 185                                 | 0.40                     | 250                       |
| CL 3216-R22 □-N | 0.22               | 25                  | 25       | 170                                 | 0.40                     | 250                       |
| CL 3216-R27 □-N | 0.27               | 25                  | 25       | 150                                 | 0.50                     | 250                       |
| CL 3216-R33 □-N | 0.33               | 25                  | 25       | 145                                 | 0.50                     | 250                       |
| CL 3216-R39 □-N | 0.39               | 25                  | 25       | 135                                 | 0.60                     | 250                       |
| CL 3216-R47 □-N | 0.47               | 25                  | 25       | 125                                 | 0.60                     | 200                       |
| CL 3216-R56 □-N | 0.56               | 25                  | 25       | 115                                 | 0.70                     | 200                       |
| CL 3216-R68 □-N | 0.68               | 25                  | 25       | 105                                 | 0.80                     | 150                       |
| CL 3216-R82 □-N | 0.82               | 25                  | 25       | 100                                 | 0.90                     | 150                       |
| CL 3216-1R0 □-N | 1.0                | 10                  | 45       | 75                                  | 0.40                     | 100                       |
| CL 3216-1R2 □-N | 1.2                | 10                  | 45       | 65                                  | 0.50                     | 100                       |
| CL 3216-1R5 □-N | 1.5                | 10                  | 45       | 60                                  | 0.50                     | 50                        |
| CL 3216-1R8 □-N | 1.8                | 10                  | 45       | 55                                  | 0.50                     | 50                        |
| CL 3216-2R2 □-N | 2.2                | 10                  | 45       | 50                                  | 0.60                     | 50                        |
| CL 3216-2R7 □-N | 2.7                | 10                  | 45       | 45                                  | 0.60                     | 50                        |
| CL 3216-3R3 □-N | 3.3                | 10                  | 45       | 41                                  | 0.70                     | 50                        |
| CL 3216-3R9 □-N | 3.9                | 10                  | 45       | 38                                  | 0.80                     | 50                        |
| CL 3216-4R7 □-N | 4.7                | 10                  | 45       | 35                                  | 0.90                     | 50                        |
| CL 3216-5R6 □-N | 5.6                | 4                   | 50       | 32                                  | 0.70                     | 25                        |
| CL 3216-6R8 □-N | 6.8                | 4                   | 50       | 29                                  | 0.80                     | 25                        |
| CL 3216-8R2 □-N | 8.2                | 4                   | 50       | 26                                  | 0.90                     | 25                        |
| CL 3216-100 □-N | 10                 | 4                   | 50       | 24                                  | 1.00                     | 25                        |



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# MULTILAYER HIGH CURRENT CHIP INDUCTORS / CL(C) TYPE

## FEATURES

- ◆ High mounting density of compact circuit due to crosstalk elimination that results from a closed magnetic flux in a ferrite material
- ◆ Suitable for flow and re-flow soldering
- ◆ Available in 3 sizes

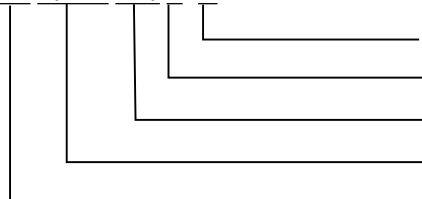


## APPLICATIONS

- ◆ Computer motherboards.
- ◆ I/O interfaces.
- ◆ Various categories of consumer electronics.

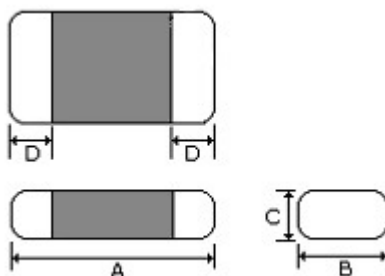
## ORDERING CODE

CL 2012C 1R0 □- N



Note: lead-free  
Tolerance (K:±10%, M:±20%)  
Inductance  
Dimension (AxB)  
Product Symbol

## SHAPES



## DIMENSIONS UNIT: mm (inch)

| Part No.        | Dimensions  |             |           |           |
|-----------------|-------------|-------------|-----------|-----------|
|                 | A           | B           | C         | D         |
| CL 2012C (0805) | 2.00 ± 0.20 | 1.25 ± 0.20 | 1.0 (Max) | 0.7 (Max) |
| CL 2016C (0806) | 2.00 ± 0.20 | 1.60 ± 0.20 | 1.0 (Max) | 0.7 (Max) |
| CL 2520C (1008) | 2.50 ± 0.20 | 2.00 ± 0.20 | 1.0 (Max) | 0.8 (Max) |



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## MULTILAYER HIGH CURRENT CHIP INDUCTORS / CL(C) TYPE

### ELECTRICAL CHARACTERISTICS FOR CL2012C

| Part No.       | Inductance (uH) | Test Freq.<br>(MHz) | Self Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|----------------|-----------------|---------------------|-------------------------------------|--------------------------|---------------------------|
| CL2012C-R47M-N | 0.47            | 1MHz / 250mV        | 100                                 | 0.125                    | 1100                      |
| CL2012C-R68M-N | 0.68            | 1MHz / 250mV        | 100                                 | 0.150                    | 1000                      |
| CL2012C-R82M-N | 0.82            | 1MHz / 250mV        | 90                                  | 0.175                    | 900                       |
| CL2012C-1R0M-N | 1.00            | 1MHz / 250mV        | 90                                  | 0.200                    | 800                       |
| CL2012C-1R2M-N | 1.20            | 1MHz / 250mV        | 80                                  | 0.200                    | 800                       |
| CL2012C-1R5M-N | 1.50            | 1MHz / 250mV        | 70                                  | 0.275                    | 700                       |
| CL2012C-1R8M-N | 1.80            | 1MHz / 250mV        | 60                                  | 0.275                    | 700                       |
| CL2012C-2R2M-N | 2.20            | 1MHz / 250mV        | 50                                  | 0.313                    | 600                       |
| CL2012C-3R3M-N | 3.30            | 1MHz / 250mV        | 40                                  | 0.338                    | 500                       |
| CL2012C-4R7M-N | 4.70            | 1MHz / 250mV        | 30                                  | 0.375                    | 500                       |

### ELECTRICAL CHARACTERISTICS FOR CL2016C

| Part No.        | Inductance (uH) | Test Freq.<br>(MHz) | Self Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|-----------------|-----------------|---------------------|-------------------------------------|--------------------------|---------------------------|
| CL2016C -R47M-N | 0.47            | 1MHz / 250mV        | 100                                 | 0.182                    | 1500                      |
| CL2016C -R68M-N | 0.68            | 1MHz / 250mV        | 90                                  | 0.195                    | 1500                      |
| CL2016C -R82M-N | 0.82            | 1MHz / 250mV        | 80                                  | 0.208                    | 1500                      |
| CL2016C -1R0M-N | 1.00            | 1MHz / 250mV        | 60                                  | 0.208                    | 1400                      |
| CL2016C -1R2M-N | 1.20            | 1MHz / 250mV        | 60                                  | 0.208                    | 1400                      |
| CL2016C -1R5M-N | 1.50            | 1MHz / 250mV        | 50                                  | 0.260                    | 1200                      |
| CL2016C -1R8M-N | 1.80            | 1MHz / 250mV        | 50                                  | 0.260                    | 1200                      |
| CL2016C -2R2M-N | 2.20            | 1MHz / 250mV        | 40                                  | 0.286                    | 1200                      |
| CL2016C -3R3M-N | 3.30            | 1MHz / 250mV        | 30                                  | 0.312                    | 1100                      |
| CL2016C -3R9M-N | 3.90            | 1MHz / 250mV        | 30                                  | 0.364                    | 1100                      |
| CL2016C -4R7M-N | 4.70            | 1MHz / 250mV        | 20                                  | 0.390                    | 1100                      |



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## MULTILAYER HIGH CURRENT CHIP INDUCTORS / CL(C) TYPE

### ELECTRICAL CHARACTERISTICS FOR CL2520C

| Part No.       | Inductance (uH) | Test Freq.<br>(MHz) | Self Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|----------------|-----------------|---------------------|-------------------------------------|--------------------------|---------------------------|
| CL2520C-R47M-N | 0.47            | 1MHz / 250mV        | 100                                 | 0.088                    | 1800                      |
| CL2520C-R68M-N | 0.68            | 1MHz / 250mV        | 90                                  | 0.113                    | 1700                      |
| CL2520C-R82M-N | 0.82            | 1MHz / 250mV        | 80                                  | 0.125                    | 1700                      |
| CL2520C-1R0M-N | 1.00            | 1MHz / 250mV        | 60                                  | 0.138                    | 1600                      |
| CL2520C-1R2M-N | 1.20            | 1MHz / 250mV        | 60                                  | 0.138                    | 1600                      |
| CL2520C-1R5M-N | 1.50            | 1MHz / 250mV        | 50                                  | 0.163                    | 1500                      |
| CL2520C-1R8M-N | 1.80            | 1MHz / 250mV        | 50                                  | 0.163                    | 1500                      |
| CL2520C-2R2M-N | 2.20            | 1MHz / 250mV        | 40                                  | 0.213                    | 1300                      |
| CL2520C-3R3M-N | 3.30            | 1MHz / 250mV        | 30                                  | 0.225                    | 1200                      |
| CL2520C-4R7M-N | 4.70            | 1MHz / 250mV        | 25                                  | 0.250                    | 1100                      |
| CL2520C-6R8M-N | 6.80            | 1MHz / 250mV        | 25                                  | 0.260                    | 1000                      |



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# MULTILAYER HIGH FREQUENCY CHIP INDUCTORS / HCL TYPE

## FEATURES

- ◆ Cost Effective
- ◆ Small size of 0603/ 1005/1608/2012 is suitable for small portable equipment.
- ◆ Supports operating frequency up to 6GHz with nominal inductance values from 1.0nH to 680nH.
- ◆ Excellent Q factor and SRF characteristics.

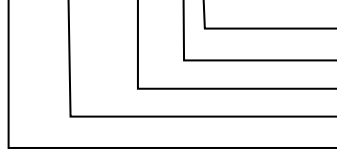


## APPLICATIONS

- ◆ Communication network devices.
- ◆ Various categories of consumer electronics.

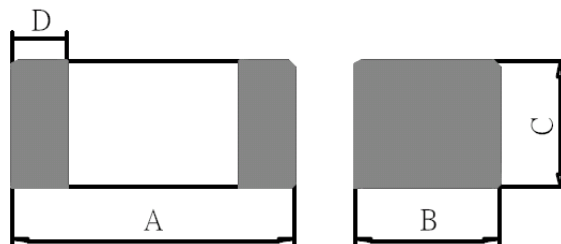
## ORDERING CODE (HIGH FREQUENCY)

HCL 1608 – 1N5 □ - N



Note: lead-free  
Tolerance (S:±0.3nH, J:±5%, K:±10%)  
Inductance  
Dimension (AxB)  
Product Symbol

## SHAPES



## DIMENSIONS UNIT: mm (inch)

| Part No.        | A           | B           | C                          | D           |
|-----------------|-------------|-------------|----------------------------|-------------|
| HCL 0603 (0201) | 0.60 ± 0.03 | 0.30 ± 0.03 | 0.30 ± 0.03                | 0.10 ~ 0.20 |
| HCL 1005 (0402) | 1.00 ± 0.10 | 0.50 ± 0.10 | 0.50 ± 0.10                | 0.25 ± 0.10 |
| HCL 1608 (0603) | 1.60 ± 0.15 | 0.80 ± 0.15 | 0.80 ± 0.15                | 0.30 ± 0.20 |
| HCL 2012 (0805) | 2.00 ± 0.20 | 1.25 ± 0.20 | 0.85 ± 0.20<br>1.25 ± 0.20 | 0.50 ± 0.30 |



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## MULTILAYER HIGH FREQUENCY CHIP INDUCTORS / HCL TYPE

### ELECTRICAL CHARACTERISTICS FOR HCL0603

| Part No.         | Inductance<br>(nH) | Q<br>Min | Test Freq.<br>(MHz) | Self Resonant Freq.<br>(GHz) Min | DC Resistance<br>( $\Omega$ ) Max | Rated Current<br>(mA) Max |
|------------------|--------------------|----------|---------------------|----------------------------------|-----------------------------------|---------------------------|
| HCL 0603-1N0 □-N | 1.0                | 4        | 100                 | 10                               | 0.11                              | 470                       |
| HCL 0603-1N2 □-N | 1.2                | 4        | 100                 | 10                               | 0.12                              | 450                       |
| HCL 0603-1N5 □-N | 1.5                | 4        | 100                 | 10                               | 0.13                              | 430                       |
| HCL 0603-1N8 □-N | 1.8                | 4        | 100                 | 10                               | 0.16                              | 390                       |
| HCL 0603-2N0 □-N | 2.0                | 4        | 100                 | 8.8                              | 0.17                              | 380                       |
| HCL 0603-2N1 □-N | 2.1                | 4        | 100                 | 8.8                              | 0.18                              | 370                       |
| HCL 0603-2N2 □-N | 2.2                | 4        | 100                 | 8.8                              | 0.19                              | 360                       |
| HCL 0603-2N4 □-N | 2.4                | 4        | 100                 | 8.3                              | 0.20                              | 350                       |
| HCL 0603-2N7 □-N | 2.7                | 4        | 100                 | 7.7                              | 0.21                              | 340                       |
| HCL 0603-3N0 □-N | 3.0                | 4        | 100                 | 7.2                              | 0.22                              | 330                       |
| HCL 0603-3N3 □-N | 3.3                | 4        | 100                 | 6.7                              | 0.23                              | 320                       |
| HCL 0603-3N6 □-N | 3.6                | 4        | 100                 | 6.4                              | 0.25                              | 310                       |
| HCL 0603-3N9 □-N | 3.9                | 4        | 100                 | 6.0                              | 0.27                              | 300                       |
| HCL 0603-4N3 □-N | 4.3                | 4        | 100                 | 5.7                              | 0.30                              | 290                       |
| HCL 0603-4N7 □-N | 4.7                | 4        | 100                 | 5.3                              | 0.31                              | 280                       |
| HCL 0603-5N1 □-N | 5.1                | 4        | 100                 | 5.0                              | 0.33                              | 270                       |
| HCL 0603-5N6 □-N | 5.6                | 4        | 100                 | 4.6                              | 0.36                              | 260                       |
| HCL 0603-6N2 □-N | 6.2                | 4        | 100                 | 4.2                              | 0.38                              | 250                       |
| HCL 0603-6N8 □-N | 6.8                | 4        | 100                 | 3.9                              | 0.39                              | 245                       |
| HCL 0603-7N5 □-N | 7.5                | 4        | 100                 | 3.6                              | 0.41                              | 240                       |
| HCL 0603-8N2 □-N | 8.2                | 4        | 100                 | 3.4                              | 0.45                              | 230                       |
| HCL 0603-9N1 □-N | 9.1                | 4        | 100                 | 3.2                              | 0.48                              | 220                       |
| HCL 0603-10N □-N | 10                 | 4        | 100                 | 2.9                              | 0.51                              | 210                       |
| HCL 0603-12N □-N | 12                 | 4        | 100                 | 2.7                              | 0.68                              | 190                       |
| HCL 0603-15N □-N | 15                 | 4        | 100                 | 2.3                              | 0.71                              | 180                       |
| HCL 0603-18N □-N | 18                 | 4        | 100                 | 2.1                              | 0.81                              | 170                       |
| HCL 0603-22N □-N | 22                 | 4        | 100                 | 1.8                              | 1.00                              | 150                       |
| HCL 0603-27N □-N | 27                 | 4        | 100                 | 1.8                              | 1.35                              | 120                       |
| HCL 0603-33N □-N | 33                 | 4        | 100                 | 1.7                              | 1.47                              | 110                       |



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# MULTILAYER HIGH FREQUENCY CHIP INDUCTORS / HCL TYPE

## ELECTRICAL CHARACTERISTICS FOR HCL1005

| Part No.          | Inductance<br>(nH) | Q<br>Min | Test Freq.<br>(MHz) | Self Resonant Freq.<br>(GHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|-------------------|--------------------|----------|---------------------|----------------------------------|--------------------------|---------------------------|
| HCL 1005-1N0 □-N  | 1.0                | 8        | 100                 | 8.0                              | 0.10                     | 300                       |
| HCL 1005-1N2 □-N  | 1.2                | 8        | 100                 | 8.0                              | 0.11                     | 300                       |
| HCL 1005-1N5 □-N  | 1.5                | 8        | 100                 | 8.0                              | 0.12                     | 300                       |
| HCL 1005-1N8 □-N  | 1.8                | 8        | 100                 | 6.0                              | 0.13                     | 300                       |
| HCL 1005-2N0 □-N  | 2.0                | 8        | 100                 | 6.0                              | 0.14                     | 300                       |
| HCL 1005-2N2 □-N  | 2.2                | 8        | 100                 | 6.0                              | 0.15                     | 300                       |
| HCL 1005-2N4 □-N  | 2.4                | 8        | 100                 | 6.0                              | 0.16                     | 300                       |
| HCL 1005-2N7 □-N  | 2.7                | 8        | 100                 | 6.0                              | 0.17                     | 300                       |
| HCL 1005-3N0 □-N  | 3.0                | 8        | 100                 | 6.0                              | 0.18                     | 300                       |
| HCL 1005-3N3 □-N  | 3.3                | 8        | 100                 | 6.0                              | 0.19                     | 300                       |
| HCL 1005-3N6 □-N  | 3.6                | 8        | 100                 | 6.0                              | 0.20                     | 300                       |
| HCL 1005-3N9 □-N  | 3.9                | 8        | 100                 | 6.0                              | 0.21                     | 300                       |
| HCL 1005-4N3 □-N  | 4.3                | 8        | 100                 | 4.0                              | 0.22                     | 300                       |
| HCL 1005-4N7 □-N  | 4.7                | 8        | 100                 | 6.0                              | 0.23                     | 300                       |
| HCL 1005-5N1 □-N  | 5.1                | 8        | 100                 | 6.0                              | 0.24                     | 300                       |
| HCL 1005-5N6 □-N  | 5.6                | 8        | 100                 | 5.3                              | 0.26                     | 300                       |
| HCL 1005-6N2 □-N  | 6.2                | 8        | 100                 | 4.3                              | 0.27                     | 300                       |
| HCL 1005-6N8 □-N  | 6.8                | 8        | 100                 | 4.2                              | 0.29                     | 300                       |
| HCL 1005-7N5 □-N  | 7.5                | 8        | 100                 | 4.2                              | 0.31                     | 300                       |
| HCL 1005-8N2 □-N  | 8.2                | 8        | 100                 | 3.6                              | 0.33                     | 300                       |
| HCL 1005-9N1 □-N  | 9.1                | 8        | 100                 | 3.4                              | 0.34                     | 300                       |
| HCL 1005-10N □-N  | 10                 | 8        | 100                 | 3.2                              | 0.35                     | 300                       |
| HCL 1005-12N □-N  | 12                 | 8        | 100                 | 2.8                              | 0.41                     | 300                       |
| HCL 1005-15N □-N  | 15                 | 8        | 100                 | 2.3                              | 0.46                     | 300                       |
| HCL 1005-18N □-N  | 18                 | 8        | 100                 | 2.1                              | 0.51                     | 300                       |
| HCL 1005-22N □-N  | 22                 | 8        | 100                 | 1.8                              | 0.58                     | 300                       |
| HCL 1005-27N □-N  | 27                 | 8        | 100                 | 1.6                              | 0.67                     | 300                       |
| HCL 1005-33N □-N  | 33                 | 8        | 100                 | 1.5                              | 0.82                     | 200                       |
| HCL 1005-39N □-N  | 39                 | 8        | 100                 | 1.2                              | 1.06                     | 200                       |
| HCL 1005-47N □-N  | 47                 | 8        | 100                 | 1.0                              | 1.15                     | 200                       |
| HCL 1005-56N □-N  | 56                 | 8        | 100                 | 0.8                              | 1.20                     | 200                       |
| HCL 1005-68N □-N  | 68                 | 8        | 100                 | 0.8                              | 1.25                     | 180                       |
| HCL 1005-82N □-N  | 82                 | 8        | 100                 | 0.6                              | 1.60                     | 150                       |
| HCL 1005-R10 □-N  | 100                | 8        | 100                 | 0.6                              | 1.90                     | 150                       |
| HCL 1005- R12 □-N | 120                | 8        | 100                 | 0.6                              | 2.20                     | 150                       |
| HCL 1005- R15 □-N | 150                | 8        | 100                 | 0.5                              | 2.99                     | 140                       |
| HCL 1005- R18 □-N | 180                | 8        | 100                 | 0.5                              | 3.38                     | 140                       |
| HCL 1005- R22 □-N | 220                | 8        | 100                 | 0.5                              | 3.77                     | 120                       |
| HCL 1005- R27 □-N | 270                | 8        | 100                 | 0.4                              | 4.90                     | 110                       |



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# MULTILAYER HIGH FREQUENCY CHIP INDUCTORS / HCL TYPE

## ELECTRICAL CHARACTERISTICS FOR HCL1608

| Part No.         | Inductance<br>(nH) | Q<br>Min | Test Freq.<br>(MHz) | Self Resonant Freq.<br>(GHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|------------------|--------------------|----------|---------------------|----------------------------------|--------------------------|---------------------------|
| HCL 1608-1N0 □-N | 1.0                | 8        | 100                 | 10                               | 0.05                     | 300                       |
| HCL 1608-1N2 □-N | 1.2                | 8        | 100                 | 10                               | 0.06                     | 300                       |
| HCL 1608-1N5 □-N | 1.5                | 8        | 100                 | 6                                | 0.07                     | 300                       |
| HCL 1608-1N8 □-N | 1.8                | 8        | 100                 | 6                                | 0.08                     | 300                       |
| HCL 1608-2N2 □-N | 2.2                | 8        | 100                 | 6                                | 0.09                     | 300                       |
| HCL 1608-2N7 □-N | 2.7                | 10       | 100                 | 6                                | 0.10                     | 300                       |
| HCL 1608-3N3 □-N | 3.3                | 10       | 100                 | 6                                | 0.12                     | 300                       |
| HCL 1608-3N9 □-N | 3.9                | 10       | 100                 | 6                                | 0.14                     | 300                       |
| HCL 1608-4N7 □-N | 4.7                | 10       | 100                 | 4                                | 0.16                     | 300                       |
| HCL 1608-5N6 □-N | 5.6                | 10       | 100                 | 4                                | 0.18                     | 300                       |
| HCL 1608-6N8 □-N | 6.8                | 10       | 100                 | 4                                | 0.22                     | 300                       |
| HCL 1608-8N2 □-N | 8.2                | 10       | 100                 | 3.50                             | 0.24                     | 300                       |
| HCL 1608-10N □-N | 10                 | 12       | 100                 | 3.40                             | 0.26                     | 300                       |
| HCL 1608-12N □-N | 12                 | 12       | 100                 | 2.60                             | 0.28                     | 300                       |
| HCL 1608-15N □-N | 15                 | 12       | 100                 | 2.30                             | 0.32                     | 300                       |
| HCL 1608-18N □-N | 18                 | 12       | 100                 | 2.00                             | 0.35                     | 300                       |
| HCL 1608-22N □-N | 22                 | 12       | 100                 | 1.60                             | 0.40                     | 300                       |
| HCL 1608-27N □-N | 27                 | 12       | 100                 | 1.40                             | 0.45                     | 300                       |
| HCL 1608-33N □-N | 33                 | 12       | 100                 | 1.20                             | 0.55                     | 300                       |
| HCL 1608-39N □-N | 39                 | 12       | 100                 | 1.10                             | 0.60                     | 300                       |
| HCL 1608-47N □-N | 47                 | 12       | 100                 | 0.90                             | 0.70                     | 300                       |
| HCL 1608-56N □-N | 56                 | 12       | 100                 | 0.90                             | 0.75                     | 300                       |
| HCL 1608-68N □-N | 68                 | 12       | 100                 | 0.70                             | 0.85                     | 300                       |
| HCL 1608-82N □-N | 82                 | 12       | 100                 | 0.60                             | 0.95                     | 300                       |
| HCL 1608-R10 □-N | 100                | 12       | 100                 | 0.60                             | 1.00                     | 300                       |
| HCL 1608-R12 □-N | 120                | 8        | 50                  | 0.50                             | 1.10                     | 300                       |
| HCL 1608-R15 □-N | 150                | 8        | 50                  | 0.50                             | 1.20                     | 300                       |
| HCL 1608-R18 □-N | 180                | 8        | 50                  | 0.40                             | 1.30                     | 300                       |
| HCL 1608-R22 □-N | 220                | 8        | 50                  | 0.40                             | 1.50                     | 300                       |
| HCL 1608-R27 □-N | 270                | 8        | 50                  | 0.40                             | 1.90                     | 300                       |
| HCL 1608-R33 □-N | 330                | 8        | 50                  | 0.35                             | 2.10                     | 300                       |
| HCL 1608-R39 □-N | 390                | 8        | 50                  | 0.35                             | 2.30                     | 150                       |
| HCL 1608-R47 □-N | 470                | 8        | 50                  | 0.30                             | 2.60                     | 150                       |



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# MULTILAYER HIGH FREQUENCY CHIP INDUCTORS / HCL TYPE

## ELECTRICAL CHARACTERISTICS FOR HCL2012

| Part No.         | Inductance<br>(nH) | Q<br>Min | Test Freq.<br>(MHz) | Self Resonant Freq.<br>(GHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|------------------|--------------------|----------|---------------------|----------------------------------|--------------------------|---------------------------|
| HCL 2012-1N0 □-N | 1.0                | 10       | 100                 | 10                               | 0.10                     | 300                       |
| HCL 2012-1N2 □-N | 1.2                | 10       | 100                 | 10                               | 0.11                     | 300                       |
| HCL 2012-1N5 □-N | 1.5                | 10       | 100                 | 4.00                             | 0.12                     | 300                       |
| HCL 2012-1N8 □-N | 1.8                | 10       | 100                 | 4.00                             | 0.13                     | 300                       |
| HCL 2012-2N2 □-N | 2.2                | 10       | 100                 | 4.00                             | 0.14                     | 300                       |
| HCL 2012-2N7 □-N | 2.7                | 12       | 100                 | 4.00                             | 0.15                     | 300                       |
| HCL 2012-3N3 □-N | 3.3                | 12       | 100                 | 4.00                             | 0.16                     | 300                       |
| HCL 2012-3N9 □-N | 3.9                | 12       | 100                 | 4.00                             | 0.18                     | 300                       |
| HCL 2012-4N7 □-N | 4.7                | 12       | 100                 | 3.50                             | 0.20                     | 300                       |
| HCL 2012-5N6 □-N | 5.6                | 15       | 100                 | 3.20                             | 0.23                     | 300                       |
| HCL 2012-6N8 □-N | 6.8                | 15       | 100                 | 2.80                             | 0.25                     | 300                       |
| HCL 2012-8N2 □-N | 8.2                | 15       | 100                 | 2.40                             | 0.28                     | 300                       |
| HCL 2012-10N □-N | 10                 | 15       | 100                 | 2.10                             | 0.30                     | 300                       |
| HCL 2012-12N □-N | 12                 | 15       | 100                 | 1.90                             | 0.35                     | 300                       |
| HCL 2012-15N □-N | 15                 | 15       | 100                 | 1.60                             | 0.40                     | 300                       |
| HCL 2012-18N □-N | 18                 | 15       | 100                 | 1.50                             | 0.45                     | 300                       |
| HCL 2012-22N □-N | 22                 | 18       | 100                 | 1.40                             | 0.50                     | 300                       |
| HCL 2012-27N □-N | 27                 | 18       | 100                 | 1.30                             | 0.55                     | 300                       |
| HCL 2012-33N □-N | 33                 | 18       | 100                 | 1.20                             | 0.60                     | 300                       |
| HCL 2012-39N □-N | 39                 | 18       | 100                 | 1.00                             | 0.65                     | 300                       |
| HCL 2012-47N □-N | 47                 | 18       | 100                 | 0.90                             | 0.70                     | 300                       |
| HCL 2012-56N □-N | 56                 | 18       | 100                 | 0.80                             | 0.75                     | 300                       |
| HCL 2012-68N □-N | 68                 | 18       | 100                 | 0.70                             | 0.80                     | 300                       |
| HCL 2012-82N □-N | 82                 | 18       | 100                 | 0.60                             | 0.85                     | 300                       |
| HCL 2012-R10 □-N | 100                | 18       | 100                 | 0.60                             | 0.90                     | 300                       |
| HCL 2012-R12 □-N | 120                | 13       | 50                  | 0.50                             | 0.95                     | 300                       |
| HCL 2012-R15 □-N | 150                | 13       | 50                  | 0.50                             | 1.00                     | 300                       |
| HCL 2012-R18 □-N | 180                | 13       | 50                  | 0.40                             | 1.10                     | 300                       |
| HCL 2012-R22 □-N | 220                | 12       | 50                  | 0.35                             | 1.20                     | 300                       |
| HCL 2012-R27 □-N | 270                | 12       | 50                  | 0.30                             | 1.30                     | 300                       |
| HCL 2012-R33 □-N | 330                | 12       | 50                  | 0.25                             | 1.40                     | 300                       |
| HCL 2012-R39 □-N | 390                | 10       | 50                  | 0.25                             | 1.60                     | 300                       |
| HCL 2012-R47 □-N | 470                | 10       | 50                  | 0.20                             | 2.00                     | 300                       |
| HCL 2012-R56 □-N | 560                | 10       | 25                  | 0.18                             | 5.00                     | 50                        |
| HCL 2012-R68 □-N | 680                | 10       | 25                  | 0.16                             | 5.50                     | 50                        |



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## MULTILAYER HIGH FREQUENCY CHIP INDUCTORS / HCL TYPE



**CORE MASTER ENTERPRISE CO., LTD.**

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# WIRE WOUND CHIP MOLDED INDUCTORS / WCI TYPE

## FEATURES

- ◆ Terminals are highly resistant to pull forces.
- ◆ Very strong solder ability by flow soldering, soldering iron or wave soldering.
- ◆ Highly reliable in environments of sudden temperature change and humidity.
- ◆ Highly accurate dimensions can be mounted automatically.
- ◆ Highly resistant to mechanical shocks and pressure.

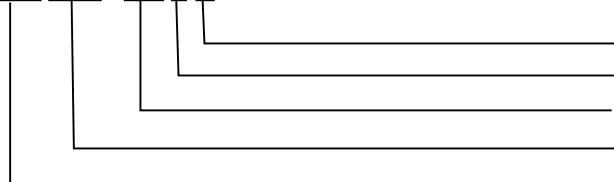


## APPLICATIONS

- ◆ Wireless modules.
- ◆ High-frequency systems.
- ◆ Various categories of consumer electronics.

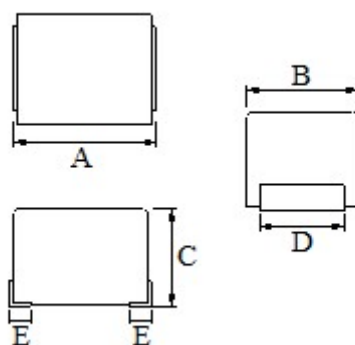
## ORDERING CODE

WCI 3225 - 100 □ - N



Note: lead-free  
Tolerance (J:±5%, K:±10%, M:±20%)  
Inductance  
Dimension (AxB)  
Product Symbol

## SHAPES



## DIMENSIONS UNIT: mm

| Part No. | A         | B         | C         | D (REF) | E (REF) |
|----------|-----------|-----------|-----------|---------|---------|
| WCI 2520 | 2.5 ± 0.3 | 2.0 ± 0.2 | 1.8 ± 0.2 | 1.4     | 0.3     |
| WCI 3225 | 3.2 ± 0.3 | 2.5 ± 0.2 | 2.2 ± 0.2 | 1.9     | 0.3     |
| WCI 4532 | 4.5 ± 0.3 | 3.2 ± 0.2 | 3.2 ± 0.2 | 1.2     | 1.0     |



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## WIRE WOUND CHIP MOLDED INDUCTORS / WCI TYPE

### ELECTRICAL CHARACTERISTICS FOR WCI 2520

| Part No.         | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Q<br>Min | Self Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>( $\Omega$ ) Max | Rated Current<br>(mA) Max |
|------------------|--------------------------|---------------------|----------|-------------------------------------|-----------------------------------|---------------------------|
| WCI 2520-010 □-N | 0.010                    | 100                 | 15       | 2150                                | 0.26                              | 530                       |
| WCI 2520-012 □-N | 0.012                    | 100                 | 15       | 2050                                | 0.27                              | 500                       |
| WCI 2520-015 □-N | 0.015                    | 100                 | 15       | 2000                                | 0.29                              | 480                       |
| WCI 2520-018 □-N | 0.018                    | 100                 | 15       | 1850                                | 0.31                              | 450                       |
| WCI 2520-022 □-N | 0.022                    | 100                 | 15       | 1650                                | 0.37                              | 420                       |
| WCI 2520-027 □-N | 0.027                    | 100                 | 15       | 1550                                | 0.40                              | 410                       |
| WCI 2520-033 □-N | 0.033                    | 100                 | 20       | 1450                                | 0.42                              | 400                       |
| WCI 2520-039 □-N | 0.039                    | 100                 | 20       | 1350                                | 0.45                              | 380                       |
| WCI 2520-047 □-N | 0.047                    | 100                 | 20       | 1200                                | 0.50                              | 360                       |
| WCI 2520-056 □-N | 0.056                    | 100                 | 20       | 1100                                | 0.60                              | 340                       |
| WCI 2520-068 □-N | 0.068                    | 100                 | 20       | 1050                                | 0.65                              | 320                       |
| WCI 2520-082 □-N | 0.082                    | 100                 | 20       | 900                                 | 0.75                              | 300                       |
| WCI 2520-R10 □-N | 0.100                    | 100                 | 20       | 800                                 | 0.80                              | 280                       |
| WCI 2520-R12 □-N | 0.120                    | 25.2                | 30       | 700                                 | 0.30                              | 550                       |
| WCI 2520-R15 □-N | 0.150                    | 25.2                | 30       | 550                                 | 0.35                              | 500                       |
| WCI 2520-R18 □-N | 0.180                    | 25.2                | 30       | 500                                 | 0.40                              | 460                       |
| WCI 2520-R22 □-N | 0.220                    | 25.2                | 30       | 450                                 | 0.50                              | 430                       |
| WCI 2520-R27 □-N | 0.270                    | 25.2                | 30       | 425                                 | 0.55                              | 420                       |
| WCI 2520-R33 □-N | 0.330                    | 25.2                | 30       | 400                                 | 0.60                              | 400                       |
| WCI 2520-R39 □-N | 0.390                    | 25.2                | 30       | 375                                 | 0.65                              | 375                       |
| WCI 2520-R47 □-N | 0.470                    | 25.2                | 30       | 350                                 | 0.68                              | 350                       |
| WCI 2520-R56 □-N | 0.560                    | 25.2                | 30       | 325                                 | 0.75                              | 325                       |
| WCI 2520-R68 □-N | 0.680                    | 25.2                | 30       | 300                                 | 0.85                              | 300                       |
| WCI 2520-R82 □-N | 0.820                    | 25.2                | 30       | 260                                 | 1.00                              | 260                       |
| WCI 2520-1R0 □-N | 1.0                      | 7.96                | 30       | 245                                 | 1.10                              | 245                       |
| WCI 2520-1R2 □-N | 1.2                      | 7.96                | 30       | 230                                 | 1.20                              | 230                       |
| WCI 2520-1R5 □-N | 1.5                      | 7.96                | 30       | 182                                 | 1.30                              | 220                       |
| WCI 2520-1R8 □-N | 1.8                      | 7.96                | 30       | 135                                 | 1.45                              | 210                       |
| WCI 2520-2R2 □-N | 2.2                      | 7.96                | 30       | 105                                 | 1.55                              | 200                       |
| WCI 2520-2R7 □-N | 2.7                      | 7.96                | 30       | 70                                  | 1.70                              | 195                       |
| WCI 2520-3R3 □-N | 3.3                      | 7.96                | 30       | 55                                  | 1.90                              | 185                       |
| WCI 2520-3R9 □-N | 3.9                      | 7.96                | 30       | 48                                  | 2.10                              | 180                       |
| WCI 2520-4R7 □-N | 4.7                      | 7.96                | 30       | 43                                  | 2.30                              | 175                       |
| WCI 2520-5R6 □-N | 5.6                      | 7.96                | 25       | 42                                  | 2.50                              | 170                       |
| WCI 2520-6R8 □-N | 6.8                      | 7.96                | 25       | 39                                  | 2.70                              | 165                       |
| WCI 2520-8R2 □-N | 8.2                      | 7.96                | 25       | 36                                  | 3.05                              | 160                       |
| WCI 2520-100 □-N | 10                       | 2.52                | 25       | 30                                  | 3.50                              | 155                       |
| WCI 2520-120 □-N | 12                       | 2.52                | 25       | 28                                  | 3.80                              | 150                       |
| WCI 2520-150 □-N | 15                       | 2.52                | 25       | 24                                  | 4.40                              | 140                       |
| WCI 2520-180 □-N | 18                       | 2.52                | 25       | 22                                  | 4.80                              | 130                       |
| WCI 2520-220 □-N | 22                       | 2.52                | 25       | 20                                  | 5.50                              | 125                       |
| WCI 2520-270 □-N | 27                       | 2.52                | 25       | 18                                  | 6.30                              | 115                       |
| WCI 2520-330 □-N | 33                       | 2.52                | 25       | 16                                  | 7.10                              | 110                       |
| WCI 2520-390 □-N | 39                       | 2.52                | 20       | 14                                  | 9.50                              | 90                        |
| WCI 2520-470 □-N | 47                       | 2.52                | 20       | 12                                  | 11.10                             | 80                        |
| WCI 2520-560 □-N | 56                       | 2.52                | 20       | 12                                  | 12.10                             | 75                        |
| WCI 2520-680 □-N | 68                       | 2.52                | 20       | 10                                  | 16.60                             | 70                        |
| WCI 2520-820 □-N | 82                       | 2.52                | 20       | 10                                  | 19.00                             | 66                        |
| WCI 2520-101 □-N | 100                      | 0.796               | 15       | 8                                   | 21.00                             | 60                        |



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## WIRE WOUND CHIP MOLDED INDUCTORS / WCI TYPE

### ELECTRICAL CHARACTERISTICS FOR WCI 3225

| Part No.         | Inductance<br>( $\mu$ H) | Test Freq.<br>(MHz) | Q<br>Min | Self Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>( $\Omega$ ) Max | Rated Current<br>(mA) Max |
|------------------|--------------------------|---------------------|----------|-------------------------------------|-----------------------------------|---------------------------|
| WCI 3225-010 □-N | 0.010                    | 100                 | 15       | 2500                                | 0.13                              | 450                       |
| WCI 3225-012 □-N | 0.012                    | 100                 | 17       | 2300                                | 0.14                              | 450                       |
| WCI 3225-015 □-N | 0.015                    | 100                 | 19       | 2100                                | 0.16                              | 450                       |
| WCI 3225-018 □-N | 0.018                    | 100                 | 21       | 1900                                | 0.18                              | 450                       |
| WCI 3225-022 □-N | 0.022                    | 100                 | 23       | 1700                                | 0.20                              | 450                       |
| WCI 3225-027 □-N | 0.027                    | 100                 | 23       | 1500                                | 0.22                              | 450                       |
| WCI 3225-033 □-N | 0.033                    | 100                 | 25       | 1400                                | 0.24                              | 450                       |
| WCI 3225-039 □-N | 0.039                    | 100                 | 25       | 1300                                | 0.27                              | 450                       |
| WCI 3225-047 □-N | 0.047                    | 100                 | 26       | 1200                                | 0.30                              | 450                       |
| WCI 3225-056 □-N | 0.056                    | 100                 | 26       | 1100                                | 0.33                              | 450                       |
| WCI 3225-068 □-N | 0.068                    | 100                 | 27       | 1000                                | 0.36                              | 450                       |
| WCI 3225-082 □-N | 0.082                    | 100                 | 27       | 900                                 | 0.40                              | 450                       |
| WCI 3225-R10 □-N | 0.100                    | 100                 | 28       | 700                                 | 0.44                              | 450                       |
| WCI 3225-R12 □-N | 0.120                    | 25.2                | 30       | 500                                 | 0.22                              | 450                       |
| WCI 3225-R15 □-N | 0.150                    | 25.2                | 30       | 450                                 | 0.25                              | 450                       |
| WCI 3225-R18 □-N | 0.180                    | 25.2                | 30       | 400                                 | 0.28                              | 450                       |
| WCI 3225-R22 □-N | 0.220                    | 25.2                | 30       | 350                                 | 0.32                              | 450                       |
| WCI 3225-R27 □-N | 0.270                    | 25.2                | 30       | 320                                 | 0.36                              | 450                       |
| WCI 3225-R33 □-N | 0.330                    | 25.2                | 30       | 300                                 | 0.40                              | 450                       |
| WCI 3225-R39 □-N | 0.390                    | 25.2                | 30       | 250                                 | 0.45                              | 450                       |
| WCI 3225-R47 □-N | 0.470                    | 25.2                | 30       | 220                                 | 0.50                              | 450                       |
| WCI 3225-R56 □-N | 0.560                    | 25.2                | 30       | 180                                 | 0.55                              | 450                       |
| WCI 3225-R68 □-N | 0.680                    | 25.2                | 30       | 160                                 | 0.60                              | 450                       |
| WCI 3225-R82 □-N | 0.820                    | 25.2                | 30       | 140                                 | 0.65                              | 450                       |
| WCI 3225-1R0 □-N | 1.00                     | 7.96                | 30       | 120                                 | 0.70                              | 400                       |
| WCI 3225-1R2 □-N | 1.20                     | 7.96                | 30       | 100                                 | 0.75                              | 390                       |
| WCI 3225-1R5 □-N | 1.50                     | 7.96                | 30       | 85                                  | 0.85                              | 370                       |
| WCI 3225-1R8 □-N | 1.80                     | 7.96                | 30       | 80                                  | 0.90                              | 350                       |
| WCI 3225-2R2 □-N | 2.20                     | 7.96                | 30       | 75                                  | 1.00                              | 320                       |
| WCI 3225-2R7 □-N | 2.70                     | 7.96                | 30       | 70                                  | 1.10                              | 290                       |
| WCI 3225-3R3 □-N | 3.30                     | 7.96                | 30       | 60                                  | 1.20                              | 260                       |
| WCI 3225-3R9 □-N | 3.90                     | 7.96                | 30       | 55                                  | 1.30                              | 250                       |
| WCI 3225-4R7 □-N | 4.70                     | 7.96                | 30       | 50                                  | 1.50                              | 220                       |
| WCI 3225-5R6 □-N | 5.60                     | 7.96                | 30       | 45                                  | 1.60                              | 200                       |
| WCI 3225-6R8 □-N | 6.80                     | 7.96                | 30       | 40                                  | 1.80                              | 180                       |
| WCI 3225-8R2 □-N | 8.20                     | 7.96                | 30       | 35                                  | 2.00                              | 170                       |
| WCI 3225-100 □-N | 10                       | 2.52                | 30       | 30                                  | 2.10                              | 150                       |
| WCI 3225-120 □-N | 12                       | 2.52                | 30       | 25                                  | 2.50                              | 140                       |
| WCI 3225-150 □-N | 15                       | 2.52                | 30       | 20                                  | 2.80                              | 130                       |
| WCI 3225-180 □-N | 18                       | 2.52                | 30       | 20                                  | 3.30                              | 120                       |
| WCI 3225-220 □-N | 22                       | 2.52                | 30       | 20                                  | 3.70                              | 110                       |
| WCI 3225-270 □-N | 27                       | 2.52                | 30       | 18                                  | 5.00                              | 80                        |
| WCI 3225-330 □-N | 33                       | 2.52                | 30       | 17                                  | 5.60                              | 70                        |
| WCI 3225-390 □-N | 39                       | 2.52                | 30       | 16                                  | 6.40                              | 65                        |
| WCI 3225-470 □-N | 47                       | 2.52                | 30       | 15                                  | 7.00                              | 60                        |
| WCI 3225-560 □-N | 56                       | 2.52                | 30       | 13                                  | 8.00                              | 55                        |
| WCI 3225-680 □-N | 68                       | 2.52                | 30       | 12                                  | 9.00                              | 50                        |
| WCI 3225-820 □-N | 82                       | 2.52                | 30       | 11                                  | 10                                | 45                        |
| WCI 3225-101 □-N | 100                      | 0.796               | 20       | 10                                  | 10                                | 40                        |
| WCI 3225-121 □-N | 120                      | 0.796               | 20       | 9                                   | 11                                | 70                        |
| WCI 3225-151 □-N | 150                      | 0.796               | 20       | 7                                   | 15                                | 65                        |
| WCI 3225-181 □-N | 180                      | 0.796               | 20       | 7                                   | 17                                | 60                        |
| WCI 3225-221 □-N | 220                      | 0.796               | 20       | 6                                   | 21                                | 50                        |
| WCI 3225-271 □-N | 270                      | 0.796               | 20       | 5                                   | 28                                | 45                        |
| WCI 3225-331 □-N | 330                      | 0.796               | 20       | 5                                   | 34                                | 40                        |



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## WIRE WOUND CHIP MOLDED INDUCTORS / WCI TYPE

### ELECTRICAL CHARACTERISTICS FOR WCI 4532

| Part No.         | Inductance<br>(uH) | Test Freq.<br>(MHz) | Q<br>Min | Self Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|------------------|--------------------|---------------------|----------|-------------------------------------|--------------------------|---------------------------|
| WCI 4532-R10 □-N | 0.10               | 25.2                | 35       | 300                                 | 0.18                     | 800                       |
| WCI 4532-R12 □-N | 0.12               | 25.2                | 35       | 280                                 | 0.20                     | 770                       |
| WCI 4532-R15 □-N | 0.15               | 25.2                | 35       | 250                                 | 0.22                     | 730                       |
| WCI 4532-R18 □-N | 0.18               | 25.2                | 35       | 220                                 | 0.24                     | 700                       |
| WCI 4532-R22 □-N | 0.22               | 25.2                | 40       | 200                                 | 0.25                     | 665                       |
| WCI 4532-R27 □-N | 0.27               | 25.2                | 40       | 180                                 | 0.26                     | 635                       |
| WCI 4532-R33 □-N | 0.33               | 25.2                | 40       | 165                                 | 0.28                     | 605                       |
| WCI 4532-R39 □-N | 0.39               | 25.2                | 40       | 150                                 | 0.30                     | 575                       |
| WCI 4532-R47 □-N | 0.47               | 25.2                | 40       | 145                                 | 0.32                     | 545                       |
| WCI 4532-R56 □-N | 0.56               | 25.2                | 40       | 140                                 | 0.36                     | 520                       |
| WCI 4532-R68 □-N | 0.68               | 25.2                | 40       | 135                                 | 0.40                     | 500                       |
| WCI 4532-R82 □-N | 0.82               | 25.2                | 40       | 130                                 | 0.45                     | 475                       |
| WCI 4532-1R0 □-N | 1.00               | 7.96                | 50       | 100                                 | 0.50                     | 450                       |
| WCI 4532-1R2 □-N | 1.20               | 7.96                | 50       | 80                                  | 0.55                     | 430                       |
| WCI 4532-1R5 □-N | 1.50               | 7.96                | 50       | 70                                  | 0.60                     | 410                       |
| WCI 4532-1R8 □-N | 1.80               | 7.96                | 50       | 60                                  | 0.65                     | 390                       |
| WCI 4532-2R2 □-N | 2.20               | 7.96                | 50       | 55                                  | 0.70                     | 380                       |
| WCI 4532-2R7 □-N | 2.70               | 7.96                | 50       | 50                                  | 0.75                     | 370                       |
| WCI 4532-3R3 □-N | 3.30               | 7.96                | 50       | 45                                  | 0.80                     | 355                       |
| WCI 4532-3R9 □-N | 3.90               | 7.96                | 50       | 40                                  | 0.90                     | 330                       |
| WCI 4532-4R7 □-N | 4.70               | 7.96                | 50       | 35                                  | 1.00                     | 315                       |
| WCI 4532-5R6 □-N | 5.60               | 7.96                | 50       | 33                                  | 1.10                     | 300                       |
| WCI 4532-6R8 □-N | 6.80               | 7.96                | 50       | 27                                  | 1.20                     | 285                       |
| WCI 4532-8R2 □-N | 8.20               | 7.96                | 50       | 25                                  | 1.40                     | 270                       |
| WCI 4532-100 □-N | 10                 | 2.52                | 50       | 20                                  | 1.60                     | 250                       |
| WCI 4532-120 □-N | 12                 | 2.52                | 50       | 18                                  | 2.00                     | 225                       |
| WCI 4532-150 □-N | 15                 | 2.52                | 50       | 17                                  | 2.50                     | 200                       |
| WCI 4532-180 □-N | 18                 | 2.52                | 50       | 15                                  | 2.80                     | 190                       |
| WCI 4532-220 □-N | 22                 | 2.52                | 50       | 13                                  | 3.20                     | 180                       |
| WCI 4532-270 □-N | 27                 | 2.52                | 50       | 12                                  | 3.60                     | 170                       |
| WCI 4532-330 □-N | 33                 | 2.52                | 50       | 11                                  | 4.00                     | 160                       |
| WCI 4532-390 □-N | 39                 | 2.52                | 50       | 10                                  | 4.50                     | 150                       |
| WCI 4532-470 □-N | 47                 | 2.52                | 50       | 10                                  | 5.00                     | 140                       |
| WCI 4532-560 □-N | 56                 | 2.52                | 50       | 9                                   | 5.50                     | 135                       |
| WCI 4532-680 □-N | 68                 | 2.52                | 50       | 9                                   | 6.00                     | 130                       |
| WCI 4532-820 □-N | 82                 | 2.52                | 50       | 8                                   | 7.00                     | 120                       |
| WCI 4532-101 □-N | 100                | 0.796               | 40       | 8                                   | 8.00                     | 110                       |
| WCI 4532-121 □-N | 120                | 0.796               | 40       | 6                                   | 8.00                     | 110                       |
| WCI 4532-151 □-N | 150                | 0.796               | 40       | 5                                   | 9.00                     | 105                       |
| WCI 4532-181 □-N | 180                | 0.796               | 40       | 5                                   | 9.50                     | 102                       |
| WCI 4532-221 □-N | 220                | 0.796               | 40       | 4                                   | 10                       | 100                       |
| WCI 4532-271 □-N | 270                | 0.796               | 40       | 4                                   | 12                       | 92                        |
| WCI 4532-331 □-N | 330                | 0.796               | 40       | 3.5                                 | 14                       | 85                        |
| WCI 4532-391 □-N | 390                | 0.796               | 40       | 3                                   | 18                       | 80                        |
| WCI 4532-471 □-N | 470                | 0.796               | 30       | 3                                   | 26                       | 62                        |
| WCI 4532-561 □-N | 560                | 0.796               | 30       | 3                                   | 30                       | 50                        |
| WCI 4532-681 □-N | 680                | 0.796               | 30       | 3                                   | 30                       | 50                        |
| WCI 4532-821 □-N | 820                | 0.796               | 30       | 2.5                                 | 35                       | 30                        |
| WCI 4532-102 □-N | 1000               | 2.252               | 20       | 2.5                                 | 40                       | 30                        |



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# WIRE WOUND HIGH CURRENT CHIP MOLDED INDUCTORS / WCI(C) TYPE

## FEATURES

- ◆ Low RDC, large current type
- ◆ Best for power supply line.
- ◆ Available in 2 sizes.

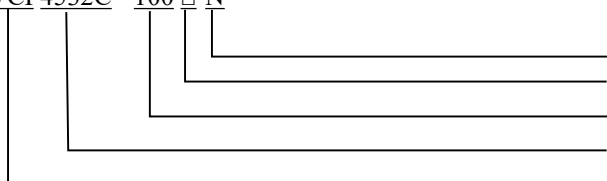


## APPLICATIONS

- ◆ Wireless modules.
- ◆ High-frequency systems.
- ◆ Various categories of consumer electronics.

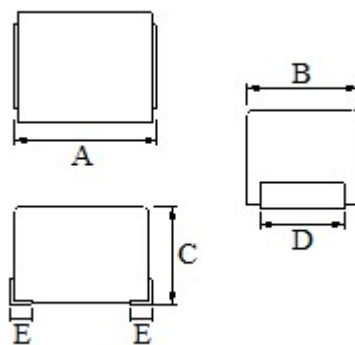
## ORDERING CODE

WCI 4532C - 100 □ -N



Note: lead-free  
Tolerance (J:±5%, K:±10%)  
Inductance  
Dimension  
Product Symbol

## SHAPES



## DIMENSIONS UNIT: mm

| Part No.  | A         | B         | C         | D (REF) | E (REF) |
|-----------|-----------|-----------|-----------|---------|---------|
| WCI 3225C | 3.2 ± 0.3 | 2.5 ± 0.2 | 2.2 ± 0.2 | 1.9     | 0.3     |
| WCI 4532C | 4.5 ± 0.3 | 3.2 ± 0.2 | 3.2 ± 0.2 | 1.2     | 1.0     |
| WCI 5650C | 5.6 ± 0.3 | 5.0 ± 0.2 | 4.0 ± 0.4 | 4.0     | 0.7     |



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## WIRE WOUND HIGH CURRENT CHIP MOLDED INDUCTORS / WCI(C) TYPE

### ELECTRICAL CHARACTERISTICS FOR WCI 3225C

| Part No.          | Inductance<br>(uH) | Test Freq.<br>(MHz) | Q<br>Min | Self<br>Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|-------------------|--------------------|---------------------|----------|----------------------------------------|--------------------------|---------------------------|
| WCI 3225C-R15 □-N | 0.15               | 25.2                | 5        | 400                                    | 0.25                     | 1350                      |
| WCI 3225C-R22 □-N | 0.22               | 25.2                | 5        | 250                                    | 0.30                     | 1150                      |
| WCI 3225C-R47 □-N | 0.47               | 25.2                | 5        | 150                                    | 0.30                     | 1000                      |
| WCI 3225C-1R0 □-N | 1.0                | 7.96                | 10       | 100                                    | 0.30                     | 850                       |
| WCI 3225C-1R5 □-N | 1.5                | 7.96                | 10       | 80                                     | 0.30                     | 700                       |
| WCI 3225C-2R2 □-N | 2.2                | 7.96                | 10       | 68                                     | 0.30                     | 600                       |
| WCI 3225C-3R3 □-N | 3.3                | 7.96                | 10       | 54                                     | 0.35                     | 500                       |
| WCI 3225C-4R7 □-N | 4.7                | 7.96                | 15       | 46                                     | 0.45                     | 430                       |
| WCI 3225C-6R8 □-N | 6.8                | 7.96                | 15       | 38                                     | 0.50                     | 360                       |
| WCI 3225C-100 □-N | 10                 | 2.52                | 15       | 30                                     | 0.80                     | 300                       |
| WCI 3225C-150 □-N | 15                 | 2.52                | 15       | 26                                     | 1.60                     | 250                       |
| WCI 3225C-220 □-N | 22                 | 2.52                | 15       | 21                                     | 2.20                     | 210                       |
| WCI 3225C-330 □-N | 33                 | 2.52                | 15       | 17                                     | 2.80                     | 170                       |
| WCI 3225C-470 □-N | 47                 | 2.52                | 15       | 14                                     | 3.20                     | 150                       |
| WCI 3225C-560 □-N | 56                 | 2.52                | 15       | 13                                     | 5.00                     | 120                       |
| WCI 3225C-680 □-N | 68                 | 2.52                | 15       | 12                                     | 5.00                     | 120                       |
| WCI 3225C-820 □-N | 82                 | 2.52                | 15       | 10                                     | 6.50                     | 110                       |
| WCI 3225C-101 □-N | 100                | 0.796               | 15       | 10                                     | 7.50                     | 100                       |
| WCI 3225C-151 □-N | 150                | 0.796               | 20       | 7                                      | 11                       | 85                        |
| WCI 3225C-221 □-N | 220                | 0.796               | 20       | 6                                      | 14                       | 70                        |
| WCI 3225C-331 □-N | 330                | 0.796               | 20       | 5                                      | 21                       | 60                        |



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## WIRE WOUND HIGH CURRENT CHIP MOLDED INDUCTORS / WCI(C) TYPE

### ELECTRICAL CHARACTERISTICS FOR WCI 4532C

| Part No.          | Inductance<br>(uH) | Test Freq.<br>(MHz) | Q<br>Min | Self<br>Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|-------------------|--------------------|---------------------|----------|----------------------------------------|--------------------------|---------------------------|
| WCI 4532C-1R0 □-N | 1.0                | 7.96                | 10       | 180.0                                  | 0.11                     | 1050                      |
| WCI 4532C-1R2 □-N | 1.2                | 7.96                | 10       | 160.0                                  | 0.12                     | 1000                      |
| WCI 4532C-1R5 □-N | 1.5                | 7.96                | 10       | 130.0                                  | 0.15                     | 950                       |
| WCI 4532C-1R8 □-N | 1.8                | 7.96                | 10       | 100.0                                  | 0.16                     | 900                       |
| WCI 4532C-2R2 □-N | 2.2                | 7.96                | 10       | 80.0                                   | 0.18                     | 850                       |
| WCI 4532C-2R7 □-N | 2.7                | 7.96                | 10       | 60.0                                   | 0.20                     | 800                       |
| WCI 4532C-3R3 □-N | 3.3                | 7.96                | 10       | 45.0                                   | 0.22                     | 750                       |
| WCI 4532C-3R9 □-N | 3.9                | 7.96                | 10       | 40.0                                   | 0.24                     | 700                       |
| WCI 4532C-4R7 □-N | 4.7                | 7.96                | 10       | 35.0                                   | 0.27                     | 650                       |
| WCI 4532C-5R6 □-N | 5.6                | 7.96                | 10       | 30.0                                   | 0.30                     | 650                       |
| WCI 4532C-6R8 □-N | 6.8                | 7.96                | 10       | 28.0                                   | 0.35                     | 600                       |
| WCI 4532C-8R2 □-N | 8.2                | 7.96                | 10       | 25.0                                   | 0.40                     | 600                       |
| WCI 4532C-100 □-N | 10                 | 2.52                | 10       | 22.0                                   | 0.50                     | 550                       |
| WCI 4532C-120 □-N | 12                 | 2.52                | 10       | 21.0                                   | 0.60                     | 500                       |
| WCI 4532C-150 □-N | 15                 | 2.52                | 10       | 20.0                                   | 0.70                     | 450                       |
| WCI 4532C-180 □-N | 18                 | 2.52                | 10       | 19.0                                   | 0.80                     | 400                       |
| WCI 4532C-220 □-N | 22                 | 2.52                | 10       | 18.0                                   | 0.90                     | 370                       |
| WCI 4532C-270 □-N | 27                 | 2.52                | 10       | 16.0                                   | 1.20                     | 330                       |
| WCI 4532C-330 □-N | 33                 | 2.52                | 10       | 14.0                                   | 1.40                     | 300                       |
| WCI 4532C-390 □-N | 39                 | 2.52                | 10       | 12.0                                   | 1.60                     | 280                       |
| WCI 4532C-470 □-N | 47                 | 2.52                | 10       | 11.5                                   | 1.90                     | 260                       |
| WCI 4532C-560 □-N | 56                 | 2.52                | 10       | 11.0                                   | 2.20                     | 240                       |
| WCI 4532C-680 □-N | 68                 | 2.52                | 10       | 10.0                                   | 2.60                     | 220                       |
| WCI 4532C-820 □-N | 82                 | 2.52                | 10       | 9.0                                    | 3.50                     | 200                       |
| WCI 4532C-101 □-N | 100                | 0.796               | 20       | 8.0                                    | 4.00                     | 180                       |
| WCI 4532C-121 □-N | 120                | 0.796               | 20       | 7.5                                    | 4.50                     | 160                       |
| WCI 4532C-151 □-N | 150                | 0.796               | 20       | 7.0                                    | 6.50                     | 140                       |
| WCI 4532C-181 □-N | 180                | 0.796               | 20       | 6.5                                    | 7.50                     | 120                       |
| WCI 4532C-221 □-N | 220                | 0.796               | 20       | 5.5                                    | 9.00                     | 120                       |
| WCI 4532C-271 □-N | 270                | 0.796               | 20       | 5.0                                    | 11.0                     | 100                       |
| WCI 4532C-331 □-N | 330                | 0.796               | 20       | 4.0                                    | 13.0                     | 90                        |
| WCI 4532C-391 □-N | 390                | 0.796               | 20       | 3.0                                    | 14.0                     | 85                        |
| WCI 4532C-471 □-N | 470                | 0.796               | 20       | 3.0                                    | 16.0                     | 75                        |
| WCI 4532C-561 □-N | 560                | 0.796               | 20       | 3.0                                    | 21.0                     | 70                        |
| WCI 4532C-681 □-N | 680                | 0.796               | 20       | 2.5                                    | 24.2                     | 65                        |



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# WIRE WOUND HIGH CURRENT CHIP MOLDED INDUCTORS / WCI(C) TYPE

## ELECTRICAL CHARACTERISTICS FOR WCI 5650C

| Part No.          | Inductance<br>(uH) | Test Freq.<br>(MHz) | Q<br>Min | Self<br>Resonant<br>FREQ.<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|-------------------|--------------------|---------------------|----------|----------------------------------------|--------------------------|---------------------------|
| WCI 5650C-1R0 □-N | 1.0                | 7.96                | 10       | 95                                     | 0.030                    | 1800                      |
| WCI 5650C-1R2 □-N | 1.2                | 7.96                | 10       | 70                                     | 0.035                    | 1700                      |
| WCI 5650C-1R5 □-N | 1.5                | 7.96                | 10       | 55                                     | 0.040                    | 1600                      |
| WCI 5650C-1R8 □-N | 1.8                | 7.96                | 10       | 47                                     | 0.050                    | 1400                      |
| WCI 5650C-2R2 □-N | 2.2                | 7.96                | 10       | 42                                     | 0.060                    | 1300                      |
| WCI 5650C-2R7 □-N | 2.7                | 7.96                | 10       | 37                                     | 0.070                    | 1200                      |
| WCI 5650C-3R3 □-N | 3.3                | 7.96                | 10       | 34                                     | 0.080                    | 1120                      |
| WCI 5650C-3R9 □-N | 3.9                | 7.96                | 10       | 32                                     | 0.090                    | 1050                      |
| WCI 5650C-4R7 □-N | 4.7                | 7.96                | 10       | 29                                     | 0.110                    | 950                       |
| WCI 5650C-5R6 □-N | 5.6                | 7.96                | 10       | 26                                     | 0.130                    | 880                       |
| WCI 5650C-6R8 □-N | 6.8                | 7.96                | 10       | 24                                     | 0.150                    | 810                       |
| WCI 5650C-8R2 □-N | 8.2                | 7.96                | 10       | 22                                     | 0.180                    | 750                       |
| WCI 5650C-100 □-N | 10                 | 2.52                | 10       | 19                                     | 0.210                    | 690                       |
| WCI 5650C-120 □-N | 12                 | 2.52                | 10       | 17                                     | 0.250                    | 630                       |
| WCI 5650C-150 □-N | 15                 | 2.52                | 10       | 16                                     | 0.300                    | 580                       |
| WCI 5650C-180 □-N | 18                 | 2.52                | 10       | 14                                     | 0.360                    | 530                       |
| WCI 5650C-220 □-N | 22                 | 2.52                | 10       | 13                                     | 0.430                    | 480                       |
| WCI 5650C-270 □-N | 27                 | 2.52                | 10       | 11.5                                   | 0.520                    | 440                       |
| WCI 5650C-330 □-N | 33                 | 2.52                | 10       | 10.5                                   | 0.620                    | 400                       |
| WCI 5650C-390 □-N | 39                 | 2.52                | 10       | 9.5                                    | 0.720                    | 370                       |
| WCI 5650C-470 □-N | 47                 | 2.52                | 10       | 8.5                                    | 0.850                    | 340                       |
| WCI 5650C-560 □-N | 56                 | 2.52                | 10       | 7.8                                    | 1.000                    | 310                       |
| WCI 5650C-680 □-N | 68                 | 2.52                | 10       | 7.0                                    | 1.200                    | 290                       |
| WCI 5650C-820 □-N | 82                 | 2.52                | 10       | 6.4                                    | 1.400                    | 270                       |
| WCI 5650C-101 □-N | 100                | 0.796               | 20       | 6.0                                    | 1.600                    | 250                       |
| WCI 5650C-121 □-N | 120                | 0.796               | 20       | 5.4                                    | 1.900                    | 230                       |
| WCI 5650C-151 □-N | 150                | 0.796               | 20       | 4.8                                    | 2.200                    | 210                       |
| WCI 5650C-181 □-N | 180                | 0.796               | 20       | 4.4                                    | 2.800                    | 190                       |
| WCI 5650C-221 □-N | 220                | 0.796               | 20       | 3.9                                    | 3.400                    | 170                       |
| WCI 5650C-271 □-N | 270                | 0.796               | 20       | 3.6                                    | 4.200                    | 155                       |
| WCI 5650C-331 □-N | 330                | 0.796               | 20       | 3.2                                    | 4.900                    | 140                       |
| WCI 5650C-391 □-N | 390                | 0.796               | 20       | 2.9                                    | 5.800                    | 130                       |
| WCI 5650C-471 □-N | 470                | 0.796               | 20       | 2.6                                    | 7.000                    | 120                       |
| WCI 5650C-561 □-N | 560                | 0.796               | 20       | 2.4                                    | 8.500                    | 110                       |
| WCI 5650C-681 □-N | 680                | 0.796               | 20       | 2.2                                    | 10.000                   | 100                       |
| WCI 5650C-821 □-N | 820                | 0.796               | 20       | 2.0                                    | 13.000                   | 90                        |
| WCI 5650C-102 □-N | 1000               | 0.252               | 20       | 1.8                                    | 15.000                   | 85                        |
| WCI 5650C-122 □-N | 1200               | 0.252               | 20       | 1.5                                    | 17.000                   | 75                        |
| WCI 5650C-152 □-N | 1500               | 0.252               | 20       | 1.4                                    | 20.000                   | 70                        |
| WCI 5650C-182 □-N | 1800               | 0.252               | 20       | 1.3                                    | 30.000                   | 60                        |
| WCI 5650C-222 □-N | 2200               | 0.252               | 20       | 1.2                                    | 35.000                   | 55                        |
| WCI 5650C-272 □-N | 2700               | 0.252               | 20       | 1.1                                    | 55.000                   | 45                        |
| WCI 5650C-332 □-N | 3300               | 0.252               | 20       | 1.0                                    | 60.000                   | 40                        |
| WCI 5650C-392 □-N | 3900               | 0.252               | 20       | 1.0                                    | 70.000                   | 38                        |
| WCI 5650C-472 □-N | 4700               | 0.252               | 20       | 0.9                                    | 78.000                   | 36                        |
| WCI 5650C-562 □-N | 5600               | 0.252               | 20       | 0.8                                    | 85.000                   | 33                        |
| WCI 5650C-682 □-N | 6800               | 0.252               | 20       | 0.7                                    | 110.000                  | 30                        |
| WCI 5650C-822 □-N | 8200               | 0.252               | 20       | 0.6                                    | 125.000                  | 28                        |
| WCI 5650C-103 □-N | 10000              | 0.0796              | 15       | 0.5                                    | 150.000                  | 25                        |



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# WIRE WOUND CERAMIC CHIP INDUCTORS / WHI TYPE

## FEATURES

- ◆ Their ceramic construction delivers the highest possible SRF's and Q value.
- ◆ These ultra-compact inductors provided exceptional Q values, even at high.
- ◆ The non-magnetic coil form also assures the utmost in thermal stability, predictability and batch consistency.

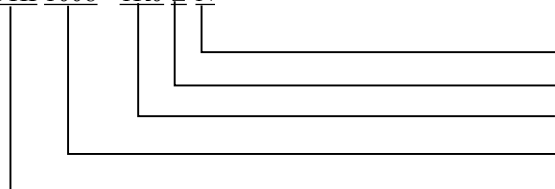


## APPLICATIONS

- ◆ RF devices.
- ◆ Telecommunications equipment.
- ◆ Networking systems.

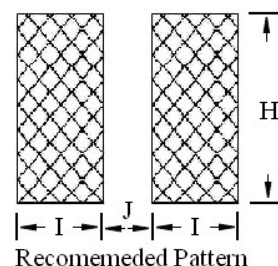
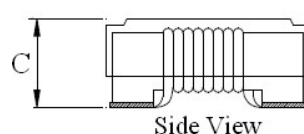
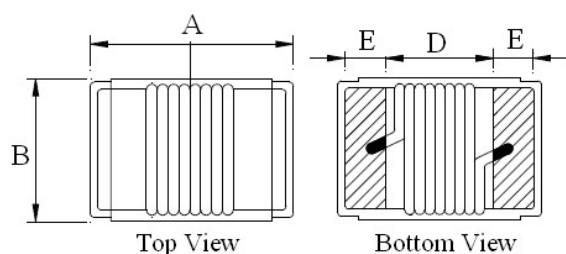
## ORDERING CODE

WHI 1008 - 1R0 □-N



Note: lead-free  
Tolerance (G:±2%, J:±5%, K:±10%)  
Inductance  
Dimension  
Product Symbol

## SHAPES



## DIMENSIONS (UNIT: mm)

| Part No. | A<br>(Max) | B<br>(Max) | C<br>(Max) | D<br>(Ref) | E<br>(Ref) | H<br>(Ref) | I<br>(Ref) | J<br>(Ref) |
|----------|------------|------------|------------|------------|------------|------------|------------|------------|
| WHI 0402 | 1.19       | 0.64       | 0.66       | 0.56       | 0.23       | 0.66       | 0.36       | 0.46       |
| WHI 0603 | 1.80       | 1.12       | 1.02       | 0.86       | 0.33       | 1.02       | 0.64       | 0.64       |
| WHI 0805 | 2.29       | 1.73       | 1.52       | 1.02       | 0.51       | 1.78       | 1.02       | 0.76       |
| WHI 1008 | 2.92       | 2.79       | 2.03       | 1.52       | 0.51       | 2.54       | 1.27       | 1.27       |



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## WIRE WOUND CERAMIC CHIP INDUCTORS / WHI TYPE

### ELECTRICAL CHARACTERISTICS FOR WHI 0402

| Part No.         | Inductance<br>(nH)<br>@250MHz | Q<br>Min | SRF<br>(GHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|------------------|-------------------------------|----------|------------------|--------------------------|---------------------------|
| WHI 0402-1N0 □-N | 1.0                           | 16       | 12.70            | 0.045                    | 1360                      |
| WHI 0402-1N2 □-N | 1.2                           | 16       | 12.90            | 0.090                    | 740                       |
| WHI 0402-1N8 □-N | 1.8                           | 16       | 12.00            | 0.070                    | 1040                      |
| WHI 0402-1N9 □-N | 1.9                           | 16       | 11.30            | 0.070                    | 1040                      |
| WHI 0402-2N0 □-N | 2.0                           | 16       | 11.10            | 0.070                    | 1040                      |
| WHI 0402-2N2 □-N | 2.2                           | 19       | 10.80            | 0.070                    | 960                       |
| WHI 0402-2N4 □-N | 2.4                           | 15       | 10.50            | 0.068                    | 790                       |
| WHI 0402-2N7 □-N | 2.7                           | 16       | 10.40            | 0.120                    | 640                       |
| WHI 0402-3N3 □-N | 3.3                           | 19       | 7.00             | 0.066                    | 840                       |
| WHI 0402-3N6 □-N | 3.6                           | 19       | 6.80             | 0.066                    | 840                       |
| WHI 0402-3N9 □-N | 3.9                           | 19       | 6.00             | 0.066                    | 840                       |
| WHI 0402-4N3 □-N | 4.3                           | 18       | 6.00             | 0.091                    | 700                       |
| WHI 0402-4N7 □-N | 4.7                           | 15       | 4.70             | 0.130                    | 640                       |
| WHI 0402-5N1 □-N | 5.1                           | 20       | 4.80             | 0.083                    | 800                       |
| WHI 0402-5N6 □-N | 5.6                           | 20       | 4.80             | 0.083                    | 760                       |
| WHI 0402-6N2 □-N | 6.2                           | 20       | 4.80             | 0.083                    | 760                       |
| WHI 0402-6N8 □-N | 6.8                           | 20       | 4.80             | 0.083                    | 680                       |
| WHI 0402-7N3 □-N | 7.3                           | 20       | 4.80             | 0.260                    | 680                       |
| WHI 0402-7N5 □-N | 7.5                           | 22       | 4.80             | 0.100                    | 680                       |
| WHI 0402-8N2 □-N | 8.2                           | 22       | 4.40             | 0.100                    | 680                       |
| WHI 0402-8N7 □-N | 8.7                           | 18       | 4.10             | 0.200                    | 480                       |
| WHI 0402-9N1 □-N | 9.1                           | 22       | 4.16             | 0.100                    | 680                       |
| WHI 0402-9N5 □-N | 9.5                           | 18       | 4.00             | 0.200                    | 480                       |
| WHI 0402-10N □-N | 10                            | 21       | 3.90             | 0.200                    | 480                       |
| WHI 0402-11N □-N | 11                            | 24       | 3.68             | 0.120                    | 640                       |
| WHI 0402-12N □-N | 12                            | 24       | 3.60             | 0.120                    | 640                       |
| WHI 0402-13N □-N | 13                            | 24       | 3.45             | 0.210                    | 440                       |
| WHI 0402-15N □-N | 15                            | 24       | 3.28             | 0.170                    | 560                       |
| WHI 0402-16N □-N | 16                            | 24       | 3.10             | 0.220                    | 560                       |
| WHI 0402-18N □-N | 18                            | 25       | 3.10             | 0.230                    | 420                       |
| WHI 0402-19N □-N | 19                            | 24       | 3.04             | 0.200                    | 480                       |
| WHI 0402-20N □-N | 20                            | 25       | 3.00             | 0.250                    | 420                       |
| WHI 0402-22N □-N | 22                            | 25       | 2.80             | 0.300                    | 400                       |
| WHI 0402-23N □-N | 23                            | 22       | 2.72             | 0.300                    | 400                       |
| WHI 0402-24N □-N | 24                            | 25       | 2.70             | 0.300                    | 400                       |
| WHI 0402-30N □-N | 30                            | 25       | 2.35             | 0.300                    | 400                       |
| WHI 0402-33N □-N | 33                            | 24       | 2.35             | 0.440                    | 400                       |
| WHI 0402-36N □-N | 36                            | 24       | 2.32             | 0.440                    | 320                       |
| WHI 0402-39N □-N | 39                            | 25       | 2.10             | 0.550                    | 200                       |
| WHI 0402-40N □-N | 40                            | 24       | 2.24             | 0.440                    | 320                       |
| WHI 0402-43N □-N | 43                            | 25       | 2.03             | 0.810                    | 100                       |
| WHI 0402-47N □-N | 47                            | 20       | 2.10             | 0.830                    | 150                       |
| WHI 0402-51N □-N | 51                            | 25       | 1.75             | 0.820                    | 100                       |
| WHI 0402-56N □-N | 56                            | 22       | 1.76             | 0.970                    | 100                       |
| WHI 0402-68N □-N | 68                            | 22       | 1.62             | 1.120                    | 100                       |
| WHI 0402-82N □-N | 82                            | 20       | 1.26             | 1.550                    | 50                        |
| WHI 0402-R10 □-N | 100                           | 20       | 1.16             | 2.000                    | 30                        |
| WHI 0402-R12 □-N | 120                           | 20       | 1.90             | 2.200                    | 50                        |



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## WIRE WOUND CERAMIC CHIP INDUCTORS / WHI TYPE

### ELECTRICAL CHARACTERISTICS FOR WHI 0603

| Part No.         | Inductance<br>(nH) | Q<br>Min | SRF<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|------------------|--------------------|----------|------------------|--------------------------|---------------------------|
| WHI 0603-1N6 □-N | 1.6@250MHz         | 24       | 12500            | 0.030                    | 700                       |
| WHI 0603-1N8 □-N | 1.8@250MHz         | 16       | 12500            | 0.045                    | 700                       |
| WHI 0603-2N2 □-N | 2.2@100MHz         | 20       | 5800             | 0.050                    | 700                       |
| WHI 0603-3N3 □-N | 3.3@250MHz         | 20       | 5500             | 0.070                    | 700                       |
| WHI 0603-3N6 □-N | 3.6@250MHz         | 22       | 5900             | 0.063                    | 700                       |
| WHI 0603-3N9 □-N | 3.9@250MHz         | 22       | 6900             | 0.080                    | 700                       |
| WHI 0603-4N3 □-N | 4.3@250MHz         | 22       | 5900             | 0.063                    | 700                       |
| WHI 0603-4N7 □-N | 4.7@250MHz         | 20       | 5800             | 0.116                    | 700                       |
| WHI 0603-5N1 □-N | 5.1@250MHz         | 20       | 5700             | 0.140                    | 700                       |
| WHI 0603-5N6 □-N | 5.6@250MHz         | 20       | 5800             | 0.150                    | 700                       |
| WHI 0603-6N1 □-N | 6.1@250MHz         | 25       | 5800             | 0.110                    | 700                       |
| WHI 0603-6N8 □-N | 6.8@250MHz         | 27       | 5800             | 0.110                    | 700                       |
| WHI 0603-7N5 □-N | 7.5@250MHz         | 28       | 4800             | 0.106                    | 700                       |
| WHI 0603-8N2 □-N | 8.2@250MHz         | 25       | 5800             | 0.120                    | 700                       |
| WHI 0603-8N4 □-N | 8.4@250MHz         | 28       | 4600             | 0.109                    | 700                       |
| WHI 0603-8N5 □-N | 8.5@250MHz         | 28       | 4600             | 0.109                    | 700                       |
| WHI 0603-8N7 □-N | 8.7@250MHz         | 28       | 4600             | 0.109                    | 700                       |
| WHI 0603-9N5 □-N | 9.5@250MHz         | 28       | 5400             | 0.135                    | 700                       |
| WHI 0603-10N □-N | 10@250MHz          | 31       | 4800             | 0.130                    | 700                       |
| WHI 0603-11N □-N | 11@250MHz          | 33       | 4000             | 0.086                    | 700                       |
| WHI 0603-12N □-N | 12@250MHz          | 35       | 4000             | 0.130                    | 700                       |
| WHI 0603-14N □-N | 14@250MHz          | 35       | 4000             | 0.170                    | 700                       |
| WHI 0603-15N □-N | 15@250MHz          | 35       | 4000             | 0.170                    | 700                       |
| WHI 0603-16N □-N | 16@250MHz          | 34       | 3300             | 0.104                    | 700                       |
| WHI 0603-18N □-N | 18@250MHz          | 35       | 3100             | 0.170                    | 700                       |
| WHI 0603-22N □-N | 22@250MHz          | 38       | 3000             | 0.190                    | 700                       |
| WHI 0603-24N □-N | 24@250MHz          | 37       | 2650             | 0.135                    | 700                       |
| WHI 0603-27N □-N | 27@250MHz          | 40       | 2800             | 0.220                    | 600                       |
| WHI 0603-30N □-N | 30@250MHz          | 37       | 2250             | 0.144                    | 600                       |
| WHI 0603-33N □-N | 33@250MHz          | 40       | 2300             | 0.220                    | 600                       |
| WHI 0603-36N □-N | 36@250MHz          | 38       | 2080             | 0.250                    | 600                       |
| WHI 0603-39N □-N | 39@250MHz          | 40       | 2200             | 0.250                    | 600                       |
| WHI 0603-43N □-N | 43@250MHz          | 39       | 2000             | 0.280                    | 600                       |
| WHI 0603-47N □-N | 47@200MHz          | 38       | 2000             | 0.280                    | 600                       |
| WHI 0603-56N □-N | 56@200MHz          | 38       | 1900             | 0.310                    | 600                       |
| WHI 0603-68N □-N | 68@200MHz          | 37       | 1700             | 0.340                    | 600                       |
| WHI 0603-72N □-N | 72@150MHz          | 34       | 1700             | 0.490                    | 400                       |
| WHI 0603-82N □-N | 82@150MHz          | 34       | 1700             | 0.540                    | 400                       |
| WHI 0603-R10 □-N | 100@150MHz         | 34       | 1400             | 0.580                    | 400                       |
| WHI 0603-R11 □-N | 110@150MHz         | 32       | 1350             | 0.610                    | 300                       |
| WHI 0603-R12 □-N | 120@150MHz         | 32       | 1300             | 0.650                    | 300                       |
| WHI 0603-R15 □-N | 150@150MHz         | 28       | 990              | 0.920                    | 280                       |
| WHI 0603-R18 □-N | 180@100MHz         | 25       | 990              | 1.250                    | 240                       |
| WHI 0603-R22 □-N | 220@100MHz         | 25       | 900              | 1.900                    | 200                       |
| WHI 0603-R27 □-N | 270@100MHz         | 24       | 900              | 2.300                    | 170                       |
| WHI 0603-R33 □-N | 330@100MHz         | 24       | 900              | 3.900                    | 185                       |
| WHI 0603-R39 □-N | 390@100MHz         | 25       | 900              | 4.350                    | 100                       |
| WHI 0603-R47 □-N | 470@100MHz         | 25       | 820              | 4.350                    | 100                       |



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## WIRE WOUND CERAMIC CHIP INDUCTORS / WHI TYPE

### ELECTRICAL CHARACTERISTICS FOR WHI 0805

| Part No.         | Inductance<br>(nH) | Q<br>Min   | SRF<br>(MHz) Min | DC Resistance<br>(Ω) Max | Rated Current<br>(mA) Max |
|------------------|--------------------|------------|------------------|--------------------------|---------------------------|
| WHI 0805-3N3 □-N | 3.3@250MHz         | 50@1500MHz | 7900             | 0.08                     | 600                       |
| WHI 0805-5N6 □-N | 5.6@250MHz         | 65@1000MHz | 5500             | 0.08                     | 600                       |
| WHI 0805-6N8 □-N | 6.8@250MHz         | 50@1000MHz | 5500             | 0.11                     | 600                       |
| WHI 0805-7N5 □-N | 7.5@250MHz         | 50@1000MHz | 4500             | 0.14                     | 600                       |
| WHI 0805-8N2 □-N | 8.2@250MHz         | 50@1000MHz | 4700             | 0.12                     | 600                       |
| WHI 0805-10N □-N | 10@250MHz          | 60@500MHz  | 4200             | 0.10                     | 600                       |
| WHI 0805-12N □-N | 12@250MHz          | 50@500MHz  | 4000             | 0.15                     | 600                       |
| WHI 0805-15N □-N | 15@250MHz          | 50@500MHz  | 3400             | 0.17                     | 600                       |
| WHI 0805-18N □-N | 18@250MHz          | 50@500MHz  | 3300             | 0.20                     | 600                       |
| WHI 0805-22N □-N | 22@250MHz          | 55@500MHz  | 2600             | 0.22                     | 500                       |
| WHI 0805-24N □-N | 24@250MHz          | 50@500MHz  | 2000             | 0.22                     | 500                       |
| WHI 0805-27N □-N | 27@250MHz          | 55@500MHz  | 2500             | 0.25                     | 500                       |
| WHI 0805-33N □-N | 33@250MHz          | 60@500MHz  | 2050             | 0.27                     | 500                       |
| WHI 0805-36N □-N | 36@250MHz          | 55@500MHz  | 1700             | 0.27                     | 500                       |
| WHI 0805-39N □-N | 39@250MHz          | 60@500MHz  | 2000             | 0.29                     | 500                       |
| WHI 0805-43N □-N | 43@200MHz          | 60@500MHz  | 1650             | 0.34                     | 500                       |
| WHI 0805-47N □-N | 47@200MHz          | 60@500MHz  | 1650             | 0.31                     | 500                       |
| WHI 0805-56N □-N | 56@200MHz          | 60@500MHz  | 1550             | 0.34                     | 500                       |
| WHI 0805-68N □-N | 68@200MHz          | 60@500MHz  | 1450             | 0.38                     | 500                       |
| WHI 0805-82N □-N | 82@150MHz          | 65@500MHz  | 1300             | 0.42                     | 400                       |
| WHI 0805-91N □-N | 91@150MHz          | 65@500MHz  | 1200             | 0.48                     | 400                       |
| WHI 0805-R10 □-N | 100@150MHz         | 65@500MHz  | 1200             | 0.46                     | 400                       |
| WHI 0805-R12 □-N | 120@150MHz         | 50@250MHz  | 1100             | 0.51                     | 400                       |
| WHI 0805-R15 □-N | 150@100MHz         | 50@250MHz  | 920              | 0.56                     | 400                       |
| WHI 0805-R18 □-N | 180@100MHz         | 50@250MHz  | 870              | 0.64                     | 400                       |
| WHI 0805-R22 □-N | 220@100MHz         | 50@250MHz  | 850              | 0.70                     | 400                       |
| WHI 0805-R24 □-N | 240@100MHz         | 44@250MHz  | 690              | 1.00                     | 350                       |
| WHI 0805-R27 □-N | 270@100MHz         | 48@250MHz  | 650              | 1.00                     | 350                       |
| WHI 0805-R30 □-N | 300@150MHz         | 25@250MHz  | 450              | 1.40                     | 300                       |
| WHI 0805-R33 □-N | 330@100MHz         | 48@250MHz  | 600              | 1.40                     | 310                       |
| WHI 0805-R39 □-N | 390@100MHz         | 48@250MHz  | 560              | 1.50                     | 290                       |
| WHI 0805-R47 □-N | 470@50MHz          | 33@100MHz  | 375              | 1.76                     | 250                       |
| WHI 0805-R56 □-N | 560@25MHz          | 23@50MHz   | 340              | 1.90                     | 230                       |
| WHI 0805-R68 □-N | 680@25MHz          | 23@50MHz   | 188              | 2.20                     | 190                       |
| WHI 0805-R75 □-N | 750@25MHz          | 23@50MHz   | 215              | 2.35                     | 180                       |
| WHI 0805-R82 □-N | 820@25MHz          | 23@50MHz   | 215              | 2.35                     | 180                       |
| WHI 0805-1R0 □-N | 1000@25MHz         | 23@50MHz   | 260              | 2.70                     | 170                       |



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## WIRE WOUND CERAMIC CHIP INDUCTORS / WHI TYPE

### ELECTRICAL CHARACTERISTICS FOR WHI 1008

| Part No.         | Inductance (nH) | Q Min     | SRF (MHz) Min | DC Resistance ( $\Omega$ ) Max | Rated Current (mA) Max |
|------------------|-----------------|-----------|---------------|--------------------------------|------------------------|
| WHI 1008-10N □-N | 10@50MHz        | 50@500MHz | 4100          | 0.08                           | 1000                   |
| WHI 1008-12N □-N | 12@50MHz        | 50@500MHz | 3300          | 0.09                           | 1000                   |
| WHI 1008-15N □-N | 15@50MHz        | 50@500MHz | 2500          | 0.10                           | 1000                   |
| WHI 1008-18N □-N | 18@50MHz        | 50@350MHz | 2500          | 0.11                           | 1000                   |
| WHI 1008-22N □-N | 22@50MHz        | 55@350MHz | 2400          | 0.12                           | 1000                   |
| WHI 1008-24N □-N | 24@50MHz        | 50@350MHz | 1500          | 0.13                           | 1000                   |
| WHI 1008-27N □-N | 27@50MHz        | 55@350MHz | 1600          | 0.13                           | 1000                   |
| WHI 1008-33N □-N | 33@50MHz        | 60@350MHz | 1600          | 0.14                           | 1000                   |
| WHI 1008-39N □-N | 39@50MHz        | 60@350MHz | 1500          | 0.15                           | 1000                   |
| WHI 1008-47N □-N | 47@50MHz        | 65@350MHz | 1500          | 0.16                           | 1000                   |
| WHI 1008-56N □-N | 56@50MHz        | 65@350MHz | 1300          | 0.18                           | 1000                   |
| WHI 1008-68N □-N | 68@50MHz        | 65@350MHz | 1300          | 0.20                           | 1000                   |
| WHI 1008-82N □-N | 82@50MHz        | 60@350MHz | 1000          | 0.22                           | 1000                   |
| WHI 1008-R10 □-N | 100@25MHz       | 60@350MHz | 1000          | 0.56                           | 650                    |
| WHI 1008-R12 □-N | 120@25MHz       | 60@350MHz | 950           | 0.63                           | 650                    |
| WHI 1008-R15 □-N | 150@25MHz       | 45@100MHz | 850           | 0.70                           | 580                    |
| WHI 1008-R18 □-N | 180@25MHz       | 45@100MHz | 750           | 0.77                           | 620                    |
| WHI 1008-R20 □-N | 200@25MHz       | 50@100MHz | 750           | 0.81                           | 500                    |
| WHI 1008-R22 □-N | 220@25MHz       | 45@100MHz | 700           | 0.84                           | 500                    |
| WHI 1008-R24 □-N | 240@25MHz       | 50@100MHz | 600           | 0.84                           | 500                    |
| WHI 1008-R27 □-N | 270@25MHz       | 45@100MHz | 600           | 0.91                           | 500                    |
| WHI 1008-R30 □-N | 300@150MHz      | 40@100MHz | 500           | 1.05                           | 660                    |
| WHI 1008-R33 □-N | 330@25MHz       | 45@100MHz | 570           | 1.05                           | 450                    |
| WHI 1008-R36 □-N | 360@150MHz      | 40@100MHz | 500           | 1.05                           | 660                    |
| WHI 1008-R39 □-N | 390@25MHz       | 45@100MHz | 500           | 1.12                           | 470                    |
| WHI 1008-R43 □-N | 430@150MHz      | 40@100MHz | 425           | 1.19                           | 600                    |
| WHI 1008-R47 □-N | 470@25MHz       | 45@100MHz | 450           | 1.19                           | 470                    |
| WHI 1008-R56 □-N | 560@25MHz       | 45@100MHz | 415           | 1.33                           | 400                    |
| WHI 1008-R62 □-N | 620@25MHz       | 45@100MHz | 375           | 1.40                           | 300                    |
| WHI 1008-R68 □-N | 680@25MHz       | 45@100MHz | 375           | 1.47                           | 400                    |
| WHI 1008-R75 □-N | 750@25MHz       | 45@100MHz | 360           | 1.54                           | 360                    |
| WHI 1008-R82 □-N | 820@25MHz       | 45@100MHz | 350           | 1.61                           | 400                    |
| WHI 1008-R91 □-N | 910@25MHz       | 35@50MHz  | 320           | 1.68                           | 380                    |
| WHI 1008-1R0 □-N | 1000@25MHz      | 35@50MHz  | 290           | 1.75                           | 370                    |
| WHI 1008-1R2 □-N | 1200@7.9MHz     | 35@50MHz  | 250           | 2.00                           | 310                    |
| WHI 1008-1R5 □-N | 1500@7.9MHz     | 28@50MHz  | 200           | 2.30                           | 330                    |
| WHI 1008-1R8 □-N | 1800@7.9MHz     | 28@50MHz  | 160           | 2.60                           | 300                    |
| WHI 1008-2R0 □-N | 2000@7.9MHz     | 25@50MHz  | 160           | 2.80                           | 280                    |
| WHI 1008-2R2 □-N | 2200@7.9MHz     | 28@50MHz  | 160           | 2.80                           | 280                    |
| WHI 1008-2R7 □-N | 2700@7.9MHz     | 22@25MHz  | 140           | 3.20                           | 290                    |
| WHI 1008-3R3 □-N | 3300@7.9MHz     | 22@25MHz  | 110           | 3.40                           | 290                    |
| WHI 1008-3R9 □-N | 3900@7.9MHz     | 20@25MHz  | 100           | 3.60                           | 260                    |
| WHI 1008-4R7 □-N | 4700@7.9MHz     | 20@25MHz  | 90            | 4.00                           | 260                    |



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## COMMON MODE SMD POWER INDUCTORS / SRI-4PAD TYPE

### FEATURES

- ◆ Low voltage power supply is prosperous accordingly power saving.
- ◆ Four terminals choke coil available for DC-DC converter of less than 3.3V input voltage.

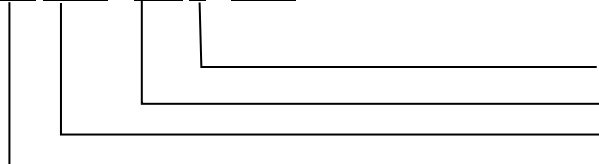


### APPLICATIONS

- ◆ DC-DC converters.
- ◆ Power modules.
- ◆ Communication devices.
- ◆ Industrial systems.

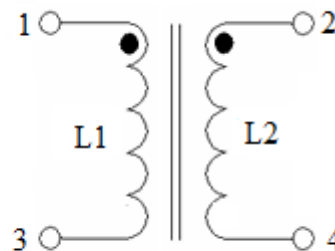
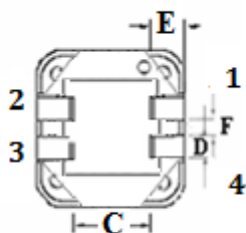
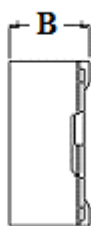
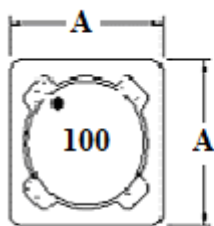
### ORDERING CODE

SRI □□□□ - □□□□ - 4PAD



Tolerance (M:±20%)  
Inductance  
Dimension  
Product Symbol

### SHAPES



### DIMENSIONS (UNIT: mm)

| Part No.     | A          | B (MAX) | C (REF) | D (REF) | E (REF) | F (REF) |
|--------------|------------|---------|---------|---------|---------|---------|
| SRI0703-4PAD | 7.3 ± 0.3  | 3.5     | 5.0     | 0.8     | 2.1     | 1.1     |
| SRI0704-4PAD | 7.3 ± 0.3  | 4.8     | 5.0     | 0.8     | 2.1     | 1.1     |
| SRI1205-4PAD | 12.0 ± 0.5 | 6.5     | 7.6     | 2.0     | 2.9     | 1.6     |
| SRI1207-4PAD | 12.0 ± 0.5 | 8.5     | 7.6     | 2.0     | 2.9     | 1.6     |



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## COMMON MODE SMD POWER INDUCTORS / SRI-4PAD TYPE

### ELECTRICAL CHARACTERISTICS FOR SRI0703\*\*-4PAD

| Part No.           | L1=L2 (μH) | DCR(mΩ) (max) | IDC (A) (max) |
|--------------------|------------|---------------|---------------|
| SRI0703-4R7 □-4PAD | 4.7        | 50            | 3.20          |
| SRI0703-100 □-4PAD | 10         | 200           | 2.40          |
| SRI0703-200 □-4PAD | 20         | 280           | 1.60          |
| SRI0703-220 □-4PAD | 22         | 400           | 1.60          |
| SRI0703-470 □-4PAD | 47         | 560           | 1.10          |
| SRI0703-510 □-4PAD | 51         | 700           | 1.00          |
| SRI0703-221 □-4PAD | 220        | 3000          | 0.53          |
| SRI0703-251 □-4PAD | 250        | 4200          | 0.34          |

### ELECTRICAL CHARACTERISTICS FOR SRI0704\*\*-4PAD

| Part No.           | L1=L2(μH) | DCR (mΩ) (max) | IDC (A) (max) |
|--------------------|-----------|----------------|---------------|
| SRI0704-2R5 □-4PAD | 2.5       | 19.8           | 5.67          |
| SRI0704-3R3 □-4PAD | 3.3       | 24.2           | 4.86          |
| SRI0704-4R7 □-4PAD | 4.7       | 28.6           | 4.14          |
| SRI0704-5R6 □-4PAD | 5.6       | 35.2           | 3.78          |
| SRI0704-6R8 □-4PAD | 6.8       | 38.5           | 3.51          |
| SRI0704-8R2 □-4PAD | 8.2       | 47.3           | 3.15          |
| SRI0704-100 □-4PAD | 10        | 55.0           | 2.70          |
| SRI0704-150 □-4PAD | 15        | 77.0           | 2.16          |
| SRI0704-220 □-4PAD | 22        | 121            | 1.89          |
| SRI0704-330 □-4PAD | 33        | 165            | 1.53          |
| SRI0704-470 □-4PAD | 47        | 231            | 1.26          |
| SRI0704-560 □-4PAD | 56        | 297            | 1.17          |
| SRI0704-680 □-4PAD | 68        | 352            | 1.08          |
| SRI0704-820 □-4PAD | 82        | 396            | 0.99          |
| SRI0704-101 □-4PAD | 100       | 495            | 0.88          |
| SRI0704-121 □-4PAD | 120       | 616            | 0.81          |
| SRI0704-151 □-4PAD | 150       | 742            | 0.72          |
| SRI0704-181 □-4PAD | 180       | 913            | 0.65          |
| SRI0704-221 □-4PAD | 220       | 1210           | 0.59          |
| SRI0704-271 □-4PAD | 270       | 1430           | 0.54          |
| SRI0704-331 □-4PAD | 330       | 1760           | 0.48          |
| SRI0704-391 □-4PAD | 390       | 2310           | 0.45          |
| SRI0704-471 □-4PAD | 470       | 2585           | 0.41          |
| SRI0704-561 □-4PAD | 560       | 2915           | 0.37          |
| SRI0704-681 □-4PAD | 680       | 3850           | 0.34          |
| SRI0704-821 □-4PAD | 820       | 4290           | 0.31          |
| SRI0704-102 □-4PAD | 1000      | 5940           | 0.27          |



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## COMMON MODE SMD POWER INDUCTORS / SRI-4PAD TYPE

### ELECTRICAL CHARACTERISTICS FOR SRI1205\*\*-4PAD

| Part No.                    | L1=L2( $\mu$ H) | DCR (m $\Omega$ ) (max) | IDC (A) (max) |
|-----------------------------|-----------------|-------------------------|---------------|
| SRI1205-4R7 $\square$ -4PAD | 4.7             | 19.8                    | 9.27          |
| SRI1205-5R6 $\square$ -4PAD | 5.6             | 22.0                    | 8.69          |
| SRI1205-6R8 $\square$ -4PAD | 6.8             | 26.4                    | 8.28          |
| SRI1205-8R2 $\square$ -4PAD | 8.2             | 28.6                    | 7.69          |
| SRI1205-100 $\square$ -4PAD | 10              | 33.0                    | 6.66          |
| SRI1205-120 $\square$ -4PAD | 12              | 40.7                    | 6.17          |
| SRI1205-150 $\square$ -4PAD | 15              | 46.2                    | 5.48          |
| SRI1205-180 $\square$ -4PAD | 18              | 52.8                    | 4.77          |
| SRI1205-220 $\square$ -4PAD | 22              | 63.8                    | 4.50          |
| SRI1205-270 $\square$ -4PAD | 27              | 68.2                    | 4.19          |
| SRI1205-330 $\square$ -4PAD | 33              | 73.7                    | 3.79          |
| SRI1205-390 $\square$ -4PAD | 39              | 78.1                    | 3.42          |
| SRI1205-470 $\square$ -4PAD | 47              | 95.7                    | 2.92          |
| SRI1205-560 $\square$ -4PAD | 56              | 108                     | 2.76          |
| SRI1205-680 $\square$ -4PAD | 68              | 118                     | 2.54          |
| SRI1205-820 $\square$ -4PAD | 82              | 150                     | 2.29          |
| SRI1205-101 $\square$ -4PAD | 100             | 177                     | 1.98          |
| SRI1205-121 $\square$ -4PAD | 120             | 229                     | 1.84          |
| SRI1205-151 $\square$ -4PAD | 150             | 261                     | 1.63          |
| SRI1205-181 $\square$ -4PAD | 180             | 294                     | 1.44          |
| SRI1205-221 $\square$ -4PAD | 220             | 380                     | 1.35          |
| SRI1205-271 $\square$ -4PAD | 270             | 443                     | 1.26          |
| SRI1205-331 $\square$ -4PAD | 330             | 600                     | 1.15          |
| SRI1205-391 $\square$ -4PAD | 390             | 660                     | 1.04          |
| SRI1205-471 $\square$ -4PAD | 470             | 874                     | 0.90          |
| SRI1205-561 $\square$ -4PAD | 560             | 995                     | 0.85          |
| SRI1205-681 $\square$ -4PAD | 680             | 1133                    | 0.79          |
| SRI1205-821 $\square$ -4PAD | 820             | 1457                    | 0.71          |
| SRI1205-102 $\square$ -4PAD | 1000            | 1683                    | 0.62          |



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## COMMON MODE SMD POWER INDUCTORS / SRI-4PAD TYPE

### ELECTRICAL CHARACTERISTICS FOR SRI1207\*\*-4PAD

| Part No.           | L1=L2( $\mu$ H) | DCR (m $\Omega$ ) (max) | IDC (A) (max) |
|--------------------|-----------------|-------------------------|---------------|
| SRI1207-4R7 □-4PAD | 4.7             | 20.9                    | 13.40         |
| SRI1207-5R6 □-4PAD | 5.6             | 25.3                    | 12.00         |
| SRI1207-6R8 □-4PAD | 6.8             | 26.4                    | 11.70         |
| SRI1207-8R2 □-4PAD | 8.2             | 27.5                    | 9.72          |
| SRI1207-100 □-4PAD | 10              | 31.9                    | 9.45          |
| SRI1207-120 □-4PAD | 12              | 34.1                    | 8.64          |
| SRI1207-150 □-4PAD | 15              | 39.6                    | 8.19          |
| SRI1207-180 □-4PAD | 18              | 44.0                    | 7.20          |
| SRI1207-220 □-4PAD | 22              | 52.8                    | 6.12          |
| SRI1207-270 □-4PAD | 27              | 66.0                    | 5.85          |
| SRI1207-330 □-4PAD | 33              | 82.5                    | 5.04          |
| SRI1207-390 □-4PAD | 39              | 88.0                    | 4.95          |
| SRI1207-470 □-4PAD | 47              | 99.0                    | 4.68          |
| SRI1207-560 □-4PAD | 56              | 104                     | 4.05          |
| SRI1207-680 □-4PAD | 68              | 115                     | 3.69          |
| SRI1207-820 □-4PAD | 82              | 154                     | 3.42          |
| SRI1207-101 □-4PAD | 100             | 165                     | 3.06          |
| SRI1207-121 □-4PAD | 120             | 225                     | 2.88          |
| SRI1207-151 □-4PAD | 150             | 253                     | 2.52          |
| SRI1207-181 □-4PAD | 180             | 280                     | 2.25          |
| SRI1207-221 □-4PAD | 220             | 379                     | 2.07          |
| SRI1207-271 □-4PAD | 270             | 495                     | 1.89          |
| SRI1207-331 □-4PAD | 330             | 561                     | 1.71          |
| SRI1207-391 □-4PAD | 390             | 616                     | 1.53          |
| SRI1207-471 □-4PAD | 470             | 841                     | 1.44          |
| SRI1207-561 □-4PAD | 560             | 929                     | 1.35          |
| SRI1207-681 □-4PAD | 680             | 1259                    | 1.17          |
| SRI1207-821 □-4PAD | 820             | 1402                    | 1.08          |
| SRI1207-102 □-4PAD | 1000            | 1556                    | 0.99          |

\* Test Frequency : 100KHZ



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## COMMON MODE CHOKE COILS / BTC TYPE

### FEATURES

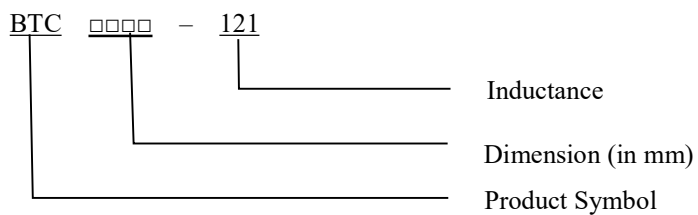
- ◆ High rated currents, reduced components height.
- ◆ Wire wound construction common mode choke with best EMI suppression effect high impedance.



### APPLICATIONS

- ◆ Wireless charging devices.
- ◆ Power equipment.

### ORDERING CODE



### SHAPES

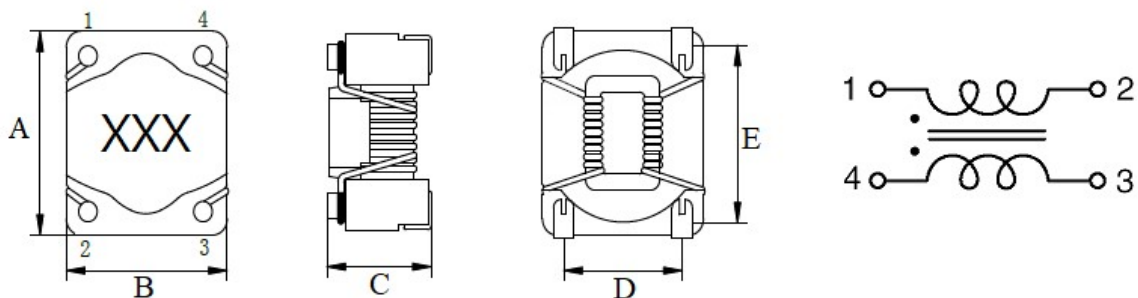


Fig. 1

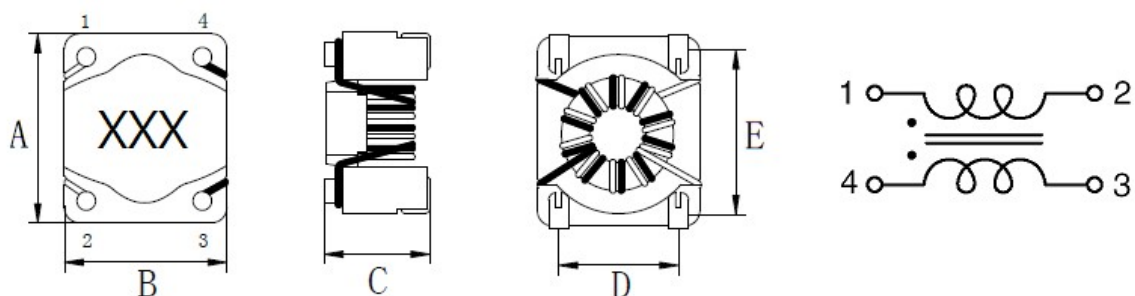


Fig. 2



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## COMMON MODE CHOKE COILS / BTC TYPE

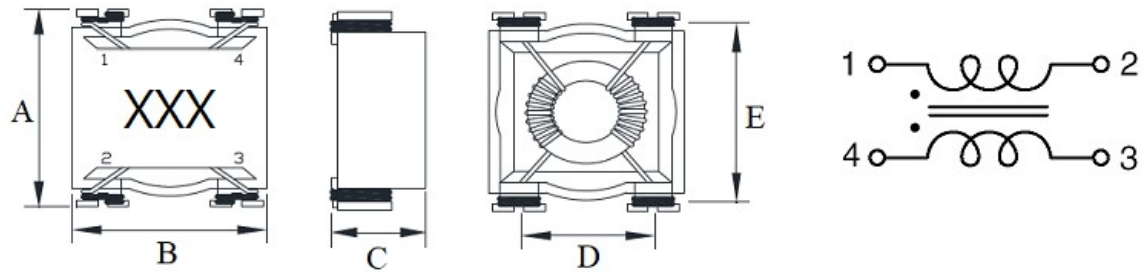


Fig. 3

### DIMENSIONS (UNIT: mm)

| Part No.        | A (Max)     | B (Max)   | C (Max) | D (Ref)    | E (Ref)    |
|-----------------|-------------|-----------|---------|------------|------------|
| <b>BTC 1006</b> | 10.00 ± 0.3 | 8.7 ± 0.3 | 6.5     | 6.22 ± 0.2 | 7.62 ± 0.2 |
| <b>BTC 1609</b> | 16.40       | 14.6      | 9.3     | 8.64       | 13.21      |
| <b>BTC 1909</b> | 19.56       | 17.3      | 10.5    | 11.30      | 16.51      |

### ELECTRICAL CHARACTERISTICS FOR BTC1006

| Part No.            | Fig. | Inductance (uH)<br>N1=N2 (± 40%) | Test Frequency | DCR (Ω)<br>(Max) | IDC (mA)<br>(Max) |
|---------------------|------|----------------------------------|----------------|------------------|-------------------|
| <b>BTC 1006-121</b> | 1    | 120                              | 100KHZ / 0.1V  | 0.025            | 2500              |
| <b>BTC 1006-221</b> | 1    | 220                              | 100KHZ / 0.1V  | 0.032            | 2200              |
| <b>BTC 1006-251</b> | 1    | 250                              | 100KHZ / 0.1V  | 0.035            | 2000              |
| <b>BTC 1006-471</b> | 1    | 470                              | 100KHZ / 0.1V  | 0.065            | 1600              |
| <b>BTC 1006-102</b> | 1    | 1000                             | 100KHZ / 0.1V  | 0.180            | 950               |
| <b>BTC 1006-222</b> | 2    | 2200                             | 100KHZ / 0.1V  | 0.300            | 750               |
| <b>BTC 1006-332</b> | 2    | 3300                             | 100KHZ / 0.1V  | 0.360            | 650               |
| <b>BTC 1006-392</b> | 2    | 3900                             | 100KHZ / 0.1V  | 0.540            | 520               |
| <b>BTC 1006-472</b> | 2    | 4700                             | 100KHZ / 0.1V  | 0.720            | 350               |

### ELECTRICAL CHARACTERISTICS FOR BTC1609

| Part No.            | Fig. | Inductance (uH)<br>N1=N2 (± 40%) | Test Frequency | DCR (Ω)<br>(Max) | IDC (mA)<br>(Max) |
|---------------------|------|----------------------------------|----------------|------------------|-------------------|
| <b>BTC 1609-121</b> | 3    | 120                              | 1KHZ / 0.25V   | 0.018            | 6000              |
| <b>BTC 1609-771</b> | 3    | 770                              | 1KHZ / 0.25V   | 0.040            | 4700              |
| <b>BTC 1609-132</b> | 3    | 1300                             | 1KHZ / 0.25V   | 0.060            | 3800              |
| <b>BTC 1609-152</b> | 3    | 1500                             | 1KHZ / 0.25V   | 0.070            | 3500              |
| <b>BTC 1609-302</b> | 3    | 3000                             | 1KHZ / 0.25V   | 0.100            | 2500              |
| <b>BTC 1609-103</b> | 3    | 10000                            | 10KHZ / 0.1V   | 0.210            | 1400              |



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## COMMON MODE CHOKE COILS / BTC TYPE

### ELECTRICAL CHARACTERISTICS FOR BTC1909

| Part No.     | Fig. | Inductance (uH)<br>N1=N2 (± 40%) | Test Frequency | DCR (Ω)<br>(Max) | IDC (mA)<br>(Max) |
|--------------|------|----------------------------------|----------------|------------------|-------------------|
| BTC 1909-121 | 3    | 120                              | 1KHZ / 0.25V   | 0.012            | 12000             |
| BTC 1909-591 | 3    | 590                              | 1KHZ / 0.25V   | 0.021            | 5600              |
| BTC 1909-771 | 3    | 770                              | 1KHZ / 0.25V   | 0.040            | 4700              |
| BTC 1909-132 | 3    | 1300                             | 1KHZ / 0.25V   | 0.060            | 3800              |
| BTC 1909-152 | 3    | 1500                             | 1KHZ / 0.25V   | 0.070            | 3500              |
| BTC 1909-302 | 3    | 3000                             | 1KHZ / 0.25V   | 0.100            | 2500              |
| BTC 1909-103 | 3    | 10000                            | 1KHZ / 0.25V   | 0.210            | 1400              |



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## COMMON MODE CHOKE COILS / LFV TYPE

### FEATURES

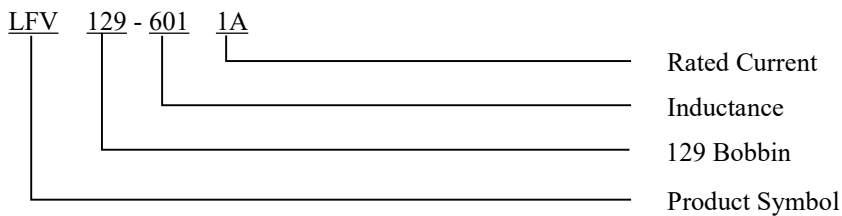
- ◆ Wide inductance range
- ◆ Easy PC Board Mounting
- ◆ High levels of safety and reliability
- ◆ Available as vertically or horizontally mounted



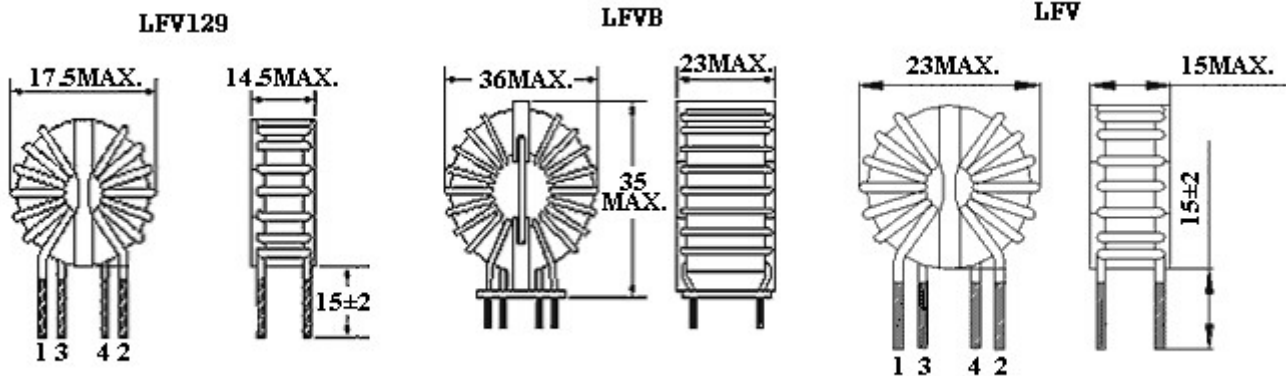
### APPLICATIONS

- ◆ Power modules.
- ◆ Display modules.
- ◆ Various categories of consumer electronics.

### ORDERING CODE



### SHAPES & DIMENSIONS (UNIT: mm)



### ELECTRICAL CHARACTERISTICS

| Part No. | Inductance (mH) | DC Resistance (mΩ) | Rated Current (A) |
|----------|-----------------|--------------------|-------------------|
| LFV129   | 0.6 - 5.0       | 60 - 150           | 1 - 3             |
| LFVB     | 0.2 - 1.5       | 5 - 45             | 3 - 15            |
| LFV      | 1.0 - 10        | 80 - 260           | 1 - 2             |

\*DESIGN AS CUSTOMER'S REQUESTED SPECIFICATIONS



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## COMMON MODE CHOKE COILS / SRF TYPE

### FEATURES

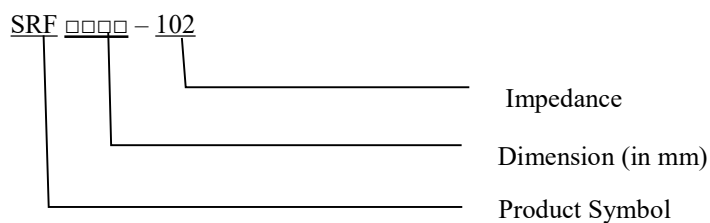
- ◆ Enable common-mode noise suppression without influence signals.
- ◆ Ferrite toroid core construction.
- ◆ Magnetically shielded.



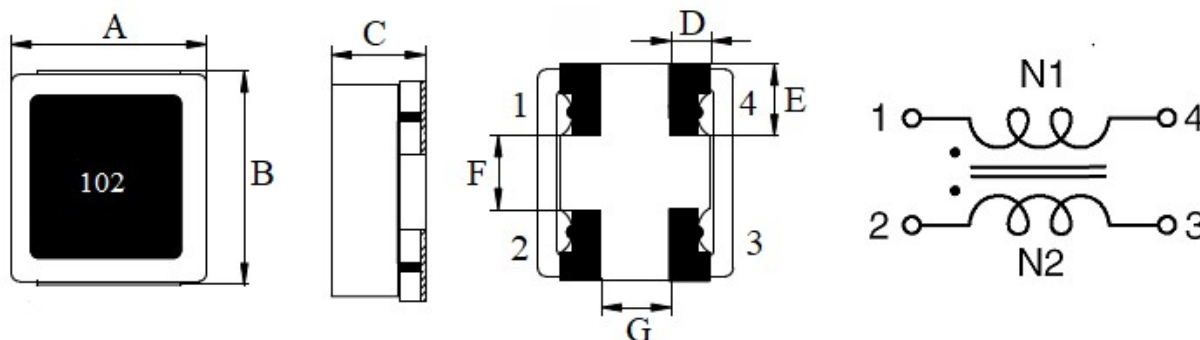
### APPLICATIONS

- ◆ Industrial systems.
- ◆ Communication interfaces.
- ◆ Various categories of consumer electronics.

### ORDERING CODE



### SHAPES



### DIMENSIONS (UNIT: mm)

| Part No.   | A         | B         | C (Max) | D (Ref.) | E (Ref.) | F (Ref.) | G (Ref.) |
|------------|-----------|-----------|---------|----------|----------|----------|----------|
| SRF 485025 | 4.8 ± 0.3 | 5.0 ± 0.3 | 2.5     | 1.35     | 1.7      | 1.6      | 1.0      |
| SRF 485045 | 4.8 ± 0.3 | 5.0 ± 0.3 | 4.5     | 1.35     | 1.7      | 1.6      | 1.0      |



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## COMMON MODE CHOKE COILS / SRF TYPE

### ELECTRICAL CHARACTERISTICS FOR SRF485025

| Part No.        | Impedance<br>( $\Omega$ ) ( TYP )<br>N1=N2 | Test Frequency<br>(MHz) | DC Resistance<br>(m $\Omega$ ) (Max) | Rated Current<br>(mA)(Max) |
|-----------------|--------------------------------------------|-------------------------|--------------------------------------|----------------------------|
| SRF485025-101 □ | 100                                        | 100MHz                  | 12.6                                 | 6500                       |
| SRF485025-251 □ | 250                                        | 100MHz                  | 19.6                                 | 5000                       |
| SRF485025-351 □ | 350                                        | 100MHz                  | 20.0                                 | 4000                       |
| SRF485025-501 □ | 500                                        | 100MHz                  | 26.6                                 | 4000                       |
| SRF485025-102 □ | 1000                                       | 100MHz                  | 33.6                                 | 2000                       |
| SRF485025-142 □ | 1400                                       | 100MHz                  | 56.0                                 | 1500                       |

### ELECTRICAL CHARACTERISTICS FOR SRF485045

| Part No.        | Impedance<br>( $\Omega$ ) ( TYP )<br>N1=N2 | Test Frequency<br>(MHz) | DC Resistance<br>(m $\Omega$ ) (Max) | Rated Current<br>(mA)(Max) |
|-----------------|--------------------------------------------|-------------------------|--------------------------------------|----------------------------|
| SRF485045-191 □ | 190                                        | 100MHz                  | 20                                   | 5000                       |
| SRF485045-351 □ | 350                                        | 100MHz                  | 40                                   | 2000                       |
| SRF485045-501 □ | 500                                        | 100MHz                  | 50                                   | 1800                       |
| SRF485045-801 □ | 800                                        | 100MHz                  | 50                                   | 1500                       |
| SRF485045-102 □ | 1000                                       | 100MHz                  | 60                                   | 1500                       |
| SRF485045-152 □ | 1500                                       | 100MHz                  | 100                                  | 1000                       |
| SRF485045-302 □ | 3000                                       | 100MHz                  | 300                                  | 500                        |



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## FIXED INDUCTORS / AL TYPE

### FEATURES

- ◆ Coating epoxy resin that ensures the humidity resistance to be long life.
- ◆ Contribute to be high Q and self-resonant frequencies.



### APPLICATIONS

- ◆ Communication modules.
- ◆ Computing devices.
- ◆ Various categories of consumer electronics.

### ORDERING CODE

|    |      |      |   |                                   |
|----|------|------|---|-----------------------------------|
| AL | 0204 | -6R8 | □ |                                   |
|    |      |      |   | Tolerance (J:±5%, K:±10%, M:±20%) |
|    |      |      |   | Inductance                        |
|    |      |      |   | Dimension                         |
|    |      |      |   | Product Symbol                    |

### SHAPES & DIMENSIONS (UNIT: mm)

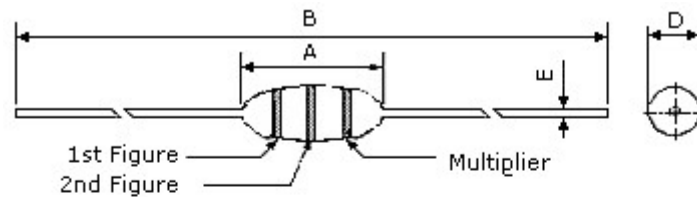


Fig. 1

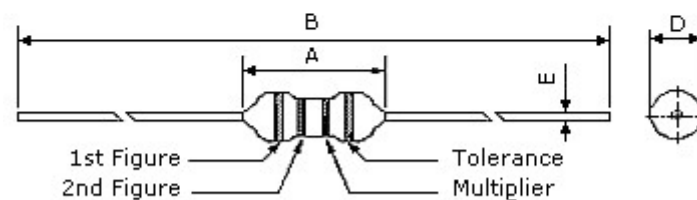


Fig. 2

| Part No. | Fig. | A (Max) | B (±2.0) | D (Max) | E (±0.05) |
|----------|------|---------|----------|---------|-----------|
| AL 0204  | 1    | 4       | 62       | 3       | 0.55      |
| AL 0307  | 2    | 8       | 62       | 3       | 0.55      |
| AL 0410  | 2    | 12      | 62       | 4       | 0.65      |
| AL 0510  | 2    | 12      | 62       | 5       | 0.65      |



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## FIXED INDUCTORS / AL TYPE

### ELECTRICAL CHARACTERISTICS FOR AL0204

| Part No.      | Inductance<br>( $\mu$ H) | Quality<br>Factor<br>(Min) | Test<br>Freq.<br>(MHz) | SRF<br>(MHz)<br>Min | DCR<br>( $\Omega$ )<br>Max | IDC<br>(mA)<br>Max |
|---------------|--------------------------|----------------------------|------------------------|---------------------|----------------------------|--------------------|
| AL 0204-1R0 K | 1.0                      | 35                         | 25.2                   | 150                 | 0.80                       | 270                |
| AL 0204-1R2 K | 1.2                      | 40                         | 7.96                   | 110                 | 0.90                       | 260                |
| AL 0204-1R5 K | 1.5                      | 40                         | 7.96                   | 70                  | 1.00                       | 250                |
| AL 0204-1R8 K | 1.8                      | 40                         | 7.96                   | 60                  | 1.10                       | 240                |
| AL 0204-2R2 K | 2.2                      | 40                         | 7.96                   | 45                  | 1.20                       | 230                |
| AL 0204-2R7 K | 2.7                      | 40                         | 7.96                   | 40                  | 1.30                       | 220                |
| AL 0204-3R3 K | 3.3                      | 40                         | 7.96                   | 38                  | 1.40                       | 210                |
| AL 0204-3R9 K | 3.9                      | 40                         | 7.96                   | 36                  | 1.50                       | 200                |
| AL 0204-4R7 K | 4.7                      | 40                         | 7.96                   | 32                  | 1.70                       | 190                |
| AL 0204-5R6 K | 5.6                      | 40                         | 7.96                   | 30                  | 1.90                       | 180                |
| AL 0204-6R8 K | 6.8                      | 40                         | 7.96                   | 28                  | 2.00                       | 175                |
| AL 0204-8R2 K | 8.2                      | 40                         | 7.96                   | 26                  | 2.20                       | 165                |
| AL 0204-100 K | 10                       | 40                         | 7.96                   | 24                  | 2.50                       | 160                |
| AL 0204-120 K | 12                       | 40                         | 2.52                   | 22                  | 2.5                        | 150                |
| AL 0204-150 K | 15                       | 40                         | 2.52                   | 20                  | 2.8                        | 145                |
| AL 0204-180 K | 18                       | 40                         | 2.52                   | 18                  | 3.1                        | 140                |
| AL 0204-220 K | 22                       | 40                         | 2.52                   | 17                  | 3.4                        | 130                |
| AL 0204-270 K | 27                       | 40                         | 2.52                   | 16                  | 4.3                        | 80                 |
| AL 0204-330 K | 33                       | 40                         | 2.52                   | 14                  | 4.7                        | 76                 |
| AL 0204-390 K | 39                       | 40                         | 2.52                   | 13                  | 5.2                        | 76                 |
| AL 0204-470 K | 47                       | 40                         | 2.52                   | 12                  | 5.8                        | 70                 |
| AL 0204-560 K | 56                       | 40                         | 2.52                   | 11                  | 6.4                        | 68                 |
| AL 0204-680 K | 68                       | 40                         | 2.52                   | 10                  | 7.2                        | 64                 |
| AL 0204-820 K | 82                       | 40                         | 2.52                   | 9.5                 | 11                         | 46                 |
| AL 0204-101 K | 100                      | 40                         | 2.52                   | 9.0                 | 12                         | 44                 |
| AL 0204-121 K | 120                      | 40                         | 0.796                  | 8.0                 | 13                         | 42                 |
| AL 0204-151 K | 150                      | 40                         | 0.796                  | 6.0                 | 16                         | 39                 |
| AL 0204-221 K | 220                      | 40                         | 0.796                  | 5.6                 | 20                         | 35                 |
| AL 0204-271 K | 270                      | 40                         | 0.796                  | 4.6                 | 25                         | 28                 |
| AL 0204-331 K | 330                      | 40                         | 0.796                  | 4.2                 | 30                         | 26                 |
| AL 0204-391 K | 390                      | 40                         | 0.796                  | 3.8                 | 34                         | 25                 |
| AL 0204-471 K | 470                      | 40                         | 0.796                  | 2.6                 | 35                         | 24                 |
| AL 0204-561 K | 560                      | 40                         | 0.796                  | 2.5                 | 40                         | 23                 |
| AL 0204-681 K | 680                      | 40                         | 0.796                  | 2.2                 | 42                         | 22                 |
| AL 0204-821 K | 820                      | 40                         | 0.796                  | 2.1                 | 46                         | 21                 |
| AL 0204-102 K | 1000                     | 40                         | 0.796                  | 2.0                 | 52                         | 20                 |



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## FIXED INDUCTORS / AL TYPE

### ELECTRICAL CHARACTERISTICS FOR AL0307

| Part No.      | Inductance<br>(uH) | Quality<br>Factor<br>(Min) | Test<br>Freq.<br>(MHz) | SRF<br>(MHz)<br>Min | DCR<br>(Ω)<br>Max | IDC<br>(mA)<br>Max |
|---------------|--------------------|----------------------------|------------------------|---------------------|-------------------|--------------------|
| AL 0307-1R0 K | 1.0                | 40                         | 25.2                   | 180                 | 0.15              | 700                |
| AL 0307-1R2 K | 1.2                | 40                         | 7.96                   | 165                 | 0.18              | 740                |
| AL 0307-1R5 K | 1.5                | 40                         | 7.96                   | 150                 | 0.20              | 700                |
| AL 0307-1R8 K | 1.8                | 50                         | 7.96                   | 125                 | 0.23              | 655                |
| AL 0307-2R2 K | 2.2                | 50                         | 7.96                   | 110                 | 0.25              | 630                |
| AL 0307-2R7 K | 2.7                | 50                         | 7.96                   | 95                  | 0.28              | 595                |
| AL 0307-3R3 K | 3.3                | 50                         | 7.96                   | 70                  | 0.30              | 575                |
| AL 0307-3R9 K | 3.9                | 50                         | 7.96                   | 65                  | 0.32              | 555                |
| AL 0307-4R7 K | 4.7                | 50                         | 7.96                   | 50                  | 0.35              | 530                |
| AL 0307-5R6 K | 5.6                | 50                         | 7.96                   | 40                  | 0.40              | 500                |
| AL 0307-6R8 K | 6.8                | 50                         | 7.96                   | 30                  | 0.45              | 470                |
| AL 0307-8R2 K | 8.2                | 50                         | 7.96                   | 28                  | 0.56              | 425                |
| AL 0307-100 K | 10                 | 50                         | 7.96                   | 22                  | 0.75              | 370                |
| AL 0307-120 K | 12                 | 50                         | 2.52                   | 20                  | 0.80              | 350                |
| AL 0307-150 K | 15                 | 50                         | 2.52                   | 16                  | 0.93              | 335                |
| AL 0307-180 K | 18                 | 50                         | 2.52                   | 15                  | 1.00              | 315                |
| AL 0307-220 K | 22                 | 50                         | 2.52                   | 13                  | 1.20              | 285                |
| AL 0307-270 K | 27                 | 50                         | 2.52                   | 11                  | 1.80              | 270                |
| AL 0307-330 K | 33                 | 50                         | 2.52                   | 10                  | 2.10              | 255                |
| AL 0307-390 K | 39                 | 50                         | 2.52                   | 9.5                 | 2.30              | 240                |
| AL 0307-470 K | 47                 | 50                         | 2.52                   | 8.5                 | 2.60              | 205                |
| AL 0307-560 K | 56                 | 50                         | 2.52                   | 7.5                 | 2.90              | 195                |
| AL 0307-680 K | 68                 | 50                         | 2.52                   | 6.5                 | 3.30              | 185                |
| AL 0307-820 K | 82                 | 50                         | 2.52                   | 6.0                 | 3.80              | 175                |
| AL 0307-101 K | 100                | 50                         | 2.52                   | 5.5                 | 4.20              | 165                |
| AL 0307-121 K | 120                | 60                         | 0.796                  | 5.4                 | 4.70              | 160                |
| AL 0307-151 K | 150                | 60                         | 0.796                  | 4.7                 | 5.40              | 150                |
| AL 0307-181 K | 180                | 60                         | 0.796                  | 4.3                 | 6.00              | 140                |
| AL 0307-221 K | 220                | 60                         | 0.796                  | 4.0                 | 7.00              | 130                |
| AL 0307-271 K | 270                | 60                         | 0.796                  | 3.7                 | 7.70              | 120                |
| AL 0307-331 K | 330                | 60                         | 0.796                  | 3.4                 | 11.1              | 100                |
| AL 0307-391 K | 390                | 60                         | 0.796                  | 2.8                 | 12.6              | 95                 |
| AL 0307-471 K | 470                | 60                         | 0.796                  | 2.5                 | 14.0              | 90                 |
| AL 0307-561 K | 560                | 60                         | 0.796                  | 2.3                 | 15.5              | 85                 |
| AL 0307-681 K | 680                | 60                         | 0.796                  | 2.0                 | 25.3              | 75                 |
| AL 0307-821 K | 820                | 60                         | 0.796                  | 1.5                 | 27.5              | 65                 |
| AL 0307-102 K | 1000               | 50                         | 0.796                  | 1.2                 | 31.4              | 60                 |



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## FIXED INDUCTORS / AL TYPE

### ELECTRICAL CHARACTERISTICS FOR AL0410

| Part No.      | Inductance<br>(uH) | Quality<br>Factor<br>(Min) | Test<br>Freq.<br>(MHz) | SRF<br>(MHz)<br>Min | DCR<br>(Ω)<br>Max | IDC<br>(mA)<br>Max |
|---------------|--------------------|----------------------------|------------------------|---------------------|-------------------|--------------------|
| AL 0410-1R0 K | 1.0                | 45                         | 25.2                   | 157                 | 0.17              | 920                |
| AL 0410-1R2 K | 1.2                | 50                         | 7.96                   | 144                 | 0.18              | 880                |
| AL 0410-1R5 K | 1.5                | 50                         | 7.96                   | 131                 | 0.20              | 830                |
| AL 0410-1R8 K | 1.8                | 55                         | 7.96                   | 121                 | 0.22              | 790                |
| AL 0410-2R2 K | 2.2                | 55                         | 7.96                   | 110                 | 0.24              | 750                |
| AL 0410-2R7 K | 2.7                | 60                         | 7.96                   | 100                 | 0.25              | 720                |
| AL 0410-3R3 K | 3.3                | 65                         | 7.96                   | 94                  | 0.30              | 670                |
| AL 0410-3R9 K | 3.9                | 65                         | 7.96                   | 86                  | 0.35              | 640                |
| AL 0410-4R7 K | 4.7                | 70                         | 7.96                   | 80                  | 0.40              | 620                |
| AL 0410-5R6 K | 5.0                | 70                         | 7.96                   | 74                  | 0.45              | 590                |
| AL 0410-6R8 K | 6.8                | 75                         | 7.96                   | 68                  | 0.50              | 550                |
| AL 0410-8R2 K | 8.2                | 80                         | 7.96                   | 53                  | 0.60              | 530                |
| AL 0410-100 K | 10                 | 80                         | 7.96                   | 45                  | 0.65              | 500                |
| AL 0410-120 K | 12                 | 75                         | 2.52                   | 34                  | 0.70              | 480                |
| AL 0410-150 K | 15                 | 70                         | 2.52                   | 20                  | 0.75              | 460                |
| AL 0410-180 K | 18                 | 65                         | 2.52                   | 14                  | 0.80              | 430                |
| AL 0410-220 K | 22                 | 50                         | 2.52                   | 9.9                 | 0.90              | 410                |
| AL 0410-270 K | 27                 | 55                         | 2.52                   | 7.6                 | 1.00              | 390                |
| AL 0410-330 K | 33                 | 55                         | 2.52                   | 6.3                 | 1.10              | 370                |
| AL 0410-390 K | 39                 | 50                         | 2.52                   | 6.3                 | 1.20              | 350                |
| AL 0410-470 K | 47                 | 45                         | 2.52                   | 6.3                 | 1.30              | 340                |
| AL 0410-560 K | 56                 | 40                         | 2.52                   | 6.2                 | 1.50              | 320                |
| AL 0410-680 K | 68                 | 40                         | 2.52                   | 5.7                 | 1.80              | 305                |
| AL 0410-820 K | 82                 | 35                         | 2.52                   | 5.3                 | 2.00              | 290                |
| AL 0410-101 K | 100                | 30                         | 2.52                   | 4.8                 | 2.50              | 275                |
| AL 0410-121 K | 120                | 70                         | 0.796                  | 3.8                 | 3.00              | 185                |
| AL 0410-151 K | 150                | 70                         | 0.796                  | 3.5                 | 4.20              | 175                |
| AL 0410-181 K | 180                | 70                         | 0.796                  | 3.3                 | 4.60              | 165                |
| AL 0410-221 K | 220                | 70                         | 0.796                  | 3.0                 | 5.10              | 155                |
| AL 0410-271 K | 270                | 65                         | 0.796                  | 2.8                 | 6.00              | 145                |
| AL 0410-331 K | 330                | 65                         | 0.796                  | 2.6                 | 6.50              | 137                |
| AL 0410-391 K | 390                | 65                         | 0.796                  | 2.4                 | 7.50              | 133                |
| AL 0410-471 K | 470                | 60                         | 0.796                  | 2.2                 | 8.50              | 126                |
| AL 0410-561 K | 560                | 60                         | 0.796                  | 2.1                 | 9.50              | 120                |
| AL 0410-681 K | 680                | 55                         | 0.796                  | 1.9                 | 12                | 113                |
| AL 0410-821 K | 820                | 55                         | 0.796                  | 1.8                 | 14                | 105                |
| AL 0410-102 K | 1000               | 50                         | 0.796                  | 1.4                 | 20                | 85                 |



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## FIXED INDUCTORS / AL TYPE

### ELECTRICAL CHARACTERISTICS FOR AL0510

| Part No.      | Inductance<br>(uH) | Quality<br>Factor<br>(Min) | Test<br>Freq.<br>(MHz) | SRF<br>(MHz)<br>Min | DCR<br>(Ω)<br>Max | IDC<br>(mA)<br>Max |
|---------------|--------------------|----------------------------|------------------------|---------------------|-------------------|--------------------|
| AL 0510-102 K | 1000               | 80                         | 252                    | 1.30                | 8                 | 120                |
| AL 0510-122 K | 1200               | 80                         | 252                    | 1.30                | 9                 | 110                |
| AL 0510-152 K | 1500               | 80                         | 252                    | 1.30                | 10                | 100                |
| AL 0510-182 K | 1800               | 80                         | 252                    | 1.20                | 11                | 90                 |
| AL 0510-222 K | 2200               | 80                         | 252                    | 1.10                | 14                | 80                 |
| AL 0510-272 K | 2700               | 80                         | 252                    | 0.85                | 18                | 75                 |
| AL 0510-332 K | 3300               | 80                         | 252                    | 0.74                | 22                | 65                 |
| AL 0510-392 K | 3900               | 80                         | 252                    | 0.70                | 26                | 60                 |
| AL 0510-472 K | 4700               | 80                         | 252                    | 0.66                | 32                | 55                 |
| AL 0510-562 K | 5600               | 70                         | 252                    | 0.64                | 34                | 50                 |
| AL 0510-682 K | 6800               | 70                         | 252                    | 0.58                | 45                | 45                 |
| AL 0510-822 K | 8200               | 50                         | 252                    | 0.50                | 60                | 40                 |
| AL 0510-103 K | 10000              | 50                         | 252                    | 0.48                | 70                | 38                 |
| AL 0510-123 K | 12000              | 50                         | 252                    | 0.46                | 82                | 35                 |
| AL 0510-153 K | 15000              | 50                         | 252                    | 0.40                | 89                | 32                 |
| AL 0510-183 K | 18000              | 40                         | 79.6                   | 0.37                | 140               | 28                 |
| AL 0510-223 K | 22000              | 40                         | 79.6                   | 0.33                | 170               | 25                 |
| AL 0510-273 K | 27000              | 40                         | 79.6                   | 0.28                | 210               | 23                 |
| AL 0510-303 K | 30000              | 40                         | 79.6                   | 0.26                | 240               | 22                 |
| AL 0510-333 K | 33000              | 40                         | 79.6                   | 0.25                | 250               | 20                 |
| AL 0510-393 K | 39000              | 40                         | 79.6                   | 0.24                | 270               | 16                 |



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# HIGH CURRENT COMMON MODE CHOKE COILS / CM TYPE

## FEATURES

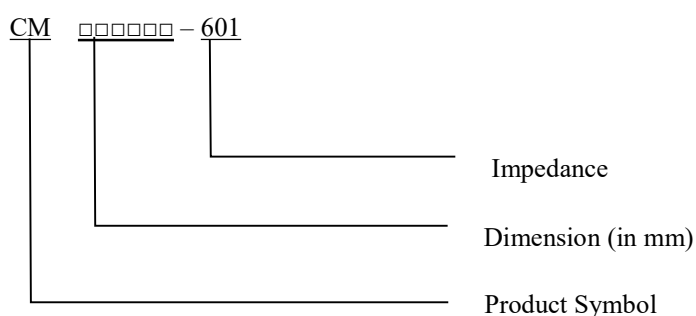
- ◆ High common mode impedance at high frequency effects excellent noise suppression performance.
- ◆ The common mode choke coils structure enables noise suppression without degrading the signal.
- ◆ Suitable for and reflow soldering



## APPLICATIONS

- ◆ EMI countermeasures at signal lines of various categories of consumer electronics. Countermeasures against common-mode noise at composite video signals.

## ORDERING CODE



## SHAPES

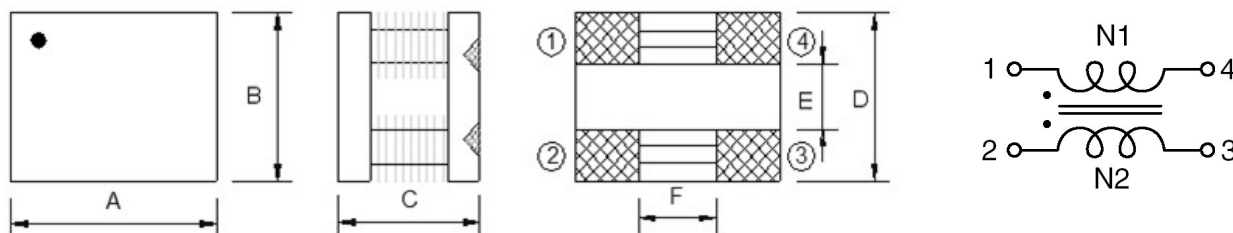


Fig.1

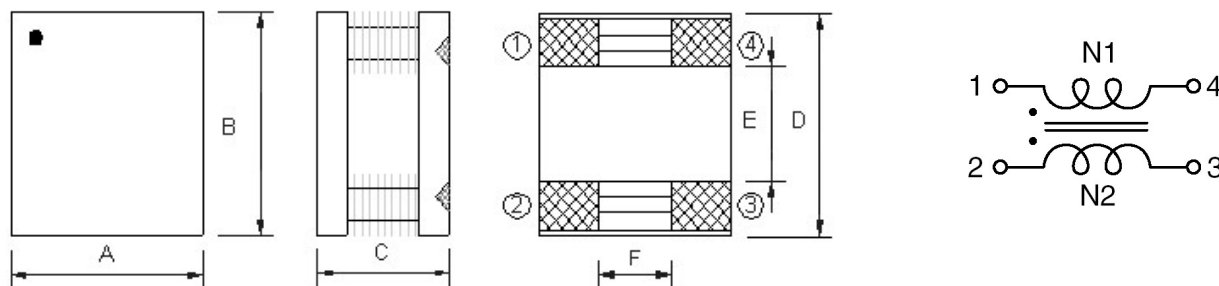


Fig.2



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## HIGH CURRENT COMMON MODE CHOKE COILS / CM TYPE

### DIMENSIONS (UNIT: mm)

| Part No.        | Fig. | A          | B          | C         | D (Ref.) | E (Ref.) | F (Ref.) |
|-----------------|------|------------|------------|-----------|----------|----------|----------|
| <b>CM508505</b> | 1    | 8.5 ± 0.3  | 5.00 ± 0.3 | 5.0 ± 0.3 | 5.0      | 1.8      | 4.0      |
| <b>CM750603</b> | 2    | 6.0 ± 0.3  | 7.50 ± 0.3 | 3.2 ± 0.3 | 7.5      | 2.5      | 1.8      |
| <b>CM100805</b> | 2    | 8.0 ± 0.3  | 10.0 ± 0.3 | 5.2 ± 0.3 | 10.0     | 4.0      | 2.5      |
| <b>CM121006</b> | 2    | 10.0 ± 0.5 | 12.0 ± 0.5 | 6.2 ± 0.3 | 12.0     | 5.0      | 3.0      |

### ELECTRICAL CHARACTERISTICS FOR CM508505

| Part No.             | Rated Current (mA) | Impedance (Ω) (Ref.) | Test Frequency | DC Resistance (mΩ)(Max) |
|----------------------|--------------------|----------------------|----------------|-------------------------|
| <b>CM 508505-701</b> | 2500               | 700                  | 100MHz         | 35                      |
| <b>CM 508505-102</b> | 2500               | 1000                 | 100MHz         | 75                      |
| <b>CM 508505-202</b> | 2000               | 2000                 | 100MHz         | 75                      |
| <b>CM 508505-222</b> | 2000               | 2200                 | 100MHz         | 75                      |

### ELECTRICAL CHARACTERISTICS FOR CM750603

| Part No.             | Rated Current (mA) | Impedance (Ω) (Ref.) | Test Frequency | DC Resistance (mΩ)(Max) |
|----------------------|--------------------|----------------------|----------------|-------------------------|
| <b>CM 750603-301</b> | 5000               | 300                  | 100MHz         | 10                      |
| <b>CM 750603-601</b> | 2500               | 600                  | 100MHz         | 45                      |
| <b>CM 750603-701</b> | 2500               | 700                  | 100MHz         | 45                      |

### ELECTRICAL CHARACTERISTICS FOR CM100805

| Part No.             | Rated Current (mA) | Impedance (Ω) (Ref.) | Test Frequency | DC Resistance (mΩ)(Max) |
|----------------------|--------------------|----------------------|----------------|-------------------------|
| <b>CM 100805-501</b> | 5000               | 500                  | 100MHz         | 10                      |
| <b>CM 100805-601</b> | 4000               | 600                  | 100MHz         | 30                      |
| <b>CM 100805-102</b> | 4000               | 1000                 | 100MHz         | 30                      |
| <b>CM 100805-152</b> | 3000               | 1500                 | 80MHz          | 60                      |
| <b>CM 100805-202</b> | 2000               | 2000                 | 70MHz          | 75                      |

### ELECTRICAL CHARACTERISTICS FOR CM121006

| Part No.             | Rated Current (mA) | Impedance (Ω) (Ref.) | Test Frequency | DC Resistance (mΩ)(Max) |
|----------------------|--------------------|----------------------|----------------|-------------------------|
| <b>CM 121006-201</b> | 6000               | 200                  | 100MHz         | 20                      |
| <b>CM 121006-501</b> | 5000               | 500                  | 100MHz         | 25                      |
| <b>CM 121006-901</b> | 5000               | 900                  | 100MHz         | 25                      |
| <b>CM 121006-102</b> | 5000               | 1000                 | 100MHz         | 25                      |
| <b>CM 121006-122</b> | 5000               | 1200                 | 100MHz         | 45                      |
| <b>CM 121006-202</b> | 5000               | 2000                 | 100MHz         | 45                      |
| <b>CM 121006-302</b> | 2500               | 3000                 | 100MHz         | 150                     |

**Note:**

- 1, Inductance is measured by LCR-meter 4284A (HP) or equivalent.
- 2, DC Resistance is measured by HP4338B Milliohms Meter or equivalent.



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# HIGH CURRENT COMMON MODE FILTERS / SCM TYPE

## FEATURES

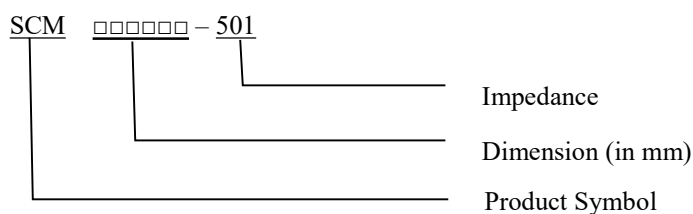
- ◆ High common mode impedance at high frequency effects excellent noise suppression performance.
- ◆ The common mode filters structure enables noise suppression without degrading the signal.
- ◆ Suitable for and reflow soldering



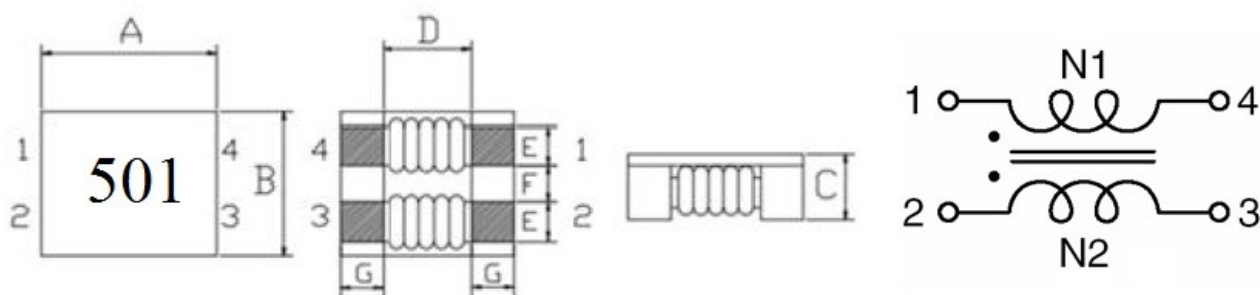
## APPLICATIONS

- ◆ Industrial equipment.
- ◆ Communication equipment.

## ORDERING CODE



## SHAPES



## DIMENSIONS (UNIT: mm)

| Part No.  | A          | B          | C (Max) | D (Ref.) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|------------|------------|---------|----------|----------|----------|----------|
| SCM474520 | 4.7 ± 0.5  | 4.5 ± 0.5  | 2.2     | 2.7      | 0.75     | 1.26     | 1.0      |
| SCM706040 | 7.0 ± 0.5  | 6.0 ± 0.5  | 4.0     | 3.5      | 1.50     | 1.50     | 1.7      |
| SCM907050 | 9.0 ± 0.5  | 7.0 ± 0.5  | 5.0     | 5.7      | 1.50     | 2.00     | 1.7      |
| SCM121164 | 12.0 ± 0.5 | 10.8 ± 0.5 | 6.4     | 7.0      | 2.70     | 2.50     | 2.5      |



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## HIGH CURRENT COMMON MODE FILTERS / SCM TYPE

### ELECTRICAL CHARACTERISTICS FOR SCM474520

| Part No.       | Impedance<br>( $\Omega$ )N1=N2 |      | Test Frequency<br>(MHz) | DC Resistance<br>(m $\Omega$ )(Max) | Rated Current<br>(A)(Max) |
|----------------|--------------------------------|------|-------------------------|-------------------------------------|---------------------------|
|                | Min                            | Typ  |                         |                                     |                           |
| SCM 474520-900 | 30                             | 90   | 100MHz                  | 35                                  | 3.2                       |
| SCM 474520-151 | 80                             | 150  | 100MHz                  | 38                                  | 3.1                       |
| SCM 474520-231 | 180                            | 230  | 100MHz                  | 39                                  | 3.0                       |
| SCM 474520-301 | 180                            | 300  | 100MHz                  | 39                                  | 3.0                       |
| SCM 474520-401 | 200                            | 400  | 100MHz                  | 50                                  | 2.5                       |
| SCM 474520-501 | 300                            | 500  | 100MHz                  | 55                                  | 2.4                       |
| SCM 474520-701 | 500                            | 700  | 100MHz                  | 59                                  | 2.2                       |
| SCM 474520-901 | 700                            | 900  | 100MHz                  | 68                                  | 2.1                       |
| SCM 474520-102 | 800                            | 1000 | 100MHz                  | 68                                  | 2.1                       |
| SCM 474520-122 | 1000                           | 1200 | 100MHz                  | 74                                  | 2.0                       |
| SCM 474520-142 | 1200                           | 1400 | 100MHz                  | 81                                  | 1.9                       |

### ELECTRICAL CHARACTERISTICS FOR SCM706040

| Part No.       | Impedance<br>( $\Omega$ )N1=N2 |      | Test Frequency<br>(MHz) | DC Resistance<br>(m $\Omega$ )(Max) | Rated Current<br>(A)(Max) |
|----------------|--------------------------------|------|-------------------------|-------------------------------------|---------------------------|
|                | Min                            | Typ  |                         |                                     |                           |
| SCM 706040-400 | 40                             | 70   | 100MHz                  | 5                                   | 15                        |
| SCM 706040-101 | 100                            | 140  | 100MHz                  | 10                                  | 9.0                       |
| SCM 706040-301 | 225                            | 300  | 100MHz                  | 10                                  | 5.0                       |
| SCM 706040-501 | 275                            | 350  | 100MHz                  | 10                                  | 5.0                       |
| SCM 706040-601 | 500                            | 700  | 100MHz                  | 15                                  | 4.0                       |
| SCM 706040-132 | 910                            | 1300 | 100MHz                  | 21                                  | 2.5                       |
| SCM 706040-222 | 1700                           | 2200 | 100MHz                  | 50                                  | 1.2                       |
| SCM 706040-272 | 2000                           | 2700 | 100MHz                  | 63                                  | 1.0                       |
| SCM 706040-302 | 2500                           | 3000 | 100MHz                  | 75                                  | 0.9                       |

### ELECTRICAL CHARACTERISTICS FOR SCM907050

| Part No.       | Impedance<br>( $\Omega$ )N1=N2 |      | Test Frequency<br>(MHz) | DC Resistance<br>(m $\Omega$ )(Max) | Rated Current<br>(A)(Max) |
|----------------|--------------------------------|------|-------------------------|-------------------------------------|---------------------------|
|                | Min                            | Typ  |                         |                                     |                           |
| SCM 907050-301 | 225                            | 300  | 100MHz                  | 6                                   | 6.0                       |
| SCM 907050-501 | 450                            | 600  | 100MHz                  | 8                                   | 6.0                       |
| SCM 907050-701 | 500                            | 700  | 100MHz                  | 10                                  | 5.0                       |
| SCM 907050-102 | 750                            | 1000 | 100MHz                  | 13                                  | 4.0                       |
| SCM 907050-222 | 1700                           | 2200 | 100MHz                  | 60                                  | 2.5                       |
| SCM 907050-272 | 2000                           | 2700 | 100MHz                  | 65                                  | 2.0                       |
| SCM 907050-302 | 2500                           | 3000 | 100MHz                  | 70                                  | 1.9                       |



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## HIGH CURRENT COMMON MODE FILTERS / SCM TYPE

### ELECTRICAL CHARACTERISTICS FOR SCM121164

| Part No.       | Impedance<br>( $\Omega$ )N1=N2 |      | Test Frequency<br>(MHz) | DC Resistance<br>(m $\Omega$ )(Max) | Rated Current<br>(A)(Max) |
|----------------|--------------------------------|------|-------------------------|-------------------------------------|---------------------------|
|                | Min                            | Typ  |                         |                                     |                           |
| SCM 121164-800 | 80                             | 230  | 100MHz                  | 4                                   | 10                        |
| SCM 121164-701 | 500                            | 700  | 100MHz                  | 6                                   | 8.0                       |
| SCM 121164-801 | 600                            | 800  | 100MHz                  | 8                                   | 8.0                       |
| SCM 121164-102 | 750                            | 1000 | 100MHz                  | 14                                  | 6.0                       |
| SCM 121164-132 | 910                            | 1300 | 100MHz                  | 23                                  | 4.5                       |
| SCM 121164-222 | 2200                           | 2500 | 100MHz                  | 35                                  | 1.8                       |
| SCM 121164-272 | 2300                           | 2700 | 100MHz                  | 50                                  | 1.5                       |



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## HIGH CURRENT FILTER CHOKES / HC TYPE

### FEATURES

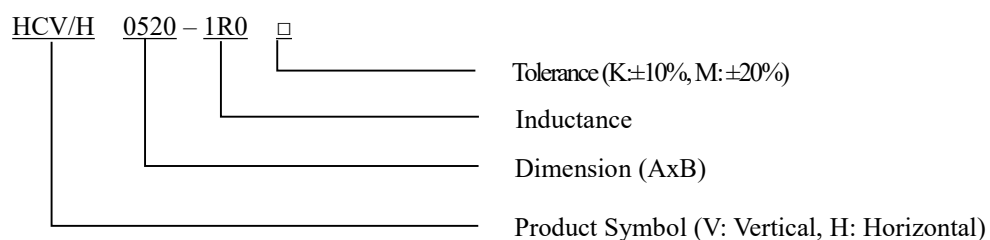
- ◆ Coated with varnish
- ◆ Use ferrite cores
- ◆ Low cost design
- ◆ General purpose inductors
- ◆ High saturation current



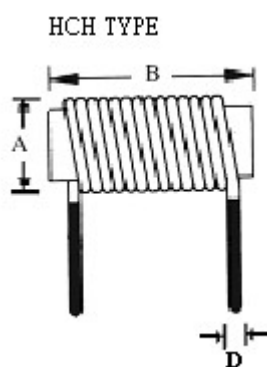
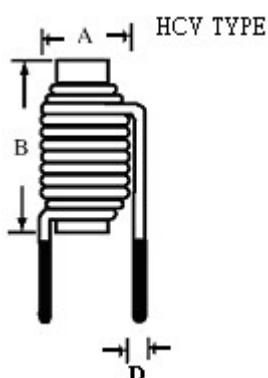
### APPLICATIONS

- ◆ Switching power supplies.
- ◆ DC/DC converters.
- ◆ Industrial systems.

### ORDERING CODE



### SHAPES



### DIMENSIONS (UNIT: mm)

| Part No. | A (Max) | B (Max) | D (Ref) |
|----------|---------|---------|---------|
| HC 0415  | 5.5     | 16.0    | 0.40    |
| HC 0520  | 7.0     | 21.0    | 0.65    |
| HC 0630  | 9.5     | 31.0    | 1.20    |

\*DESIGN AS CUSTOMER'S REQUESTED SPECIFICATIONS



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## LINE FILTERS / LFU TYPE

### FEATURES

- ◆ High impedance and excellent frequency characteristic.
- ◆ Low magnetic flux leakage, agrees with its impedance characteristics.

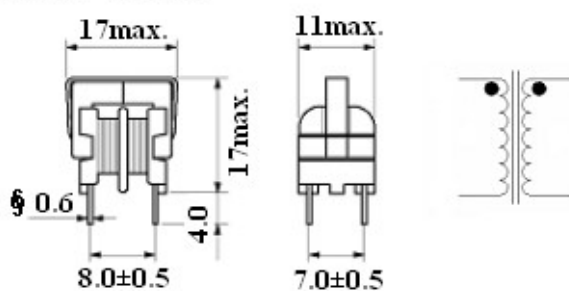
### APPLICATIONS

- ◆ Power modules.
- ◆ Display modules.
- ◆ Various categories of consumer electronics.

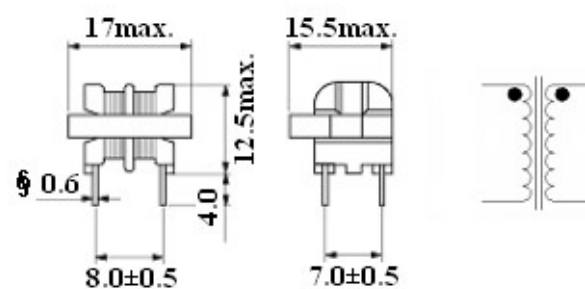


### SHAPES AND DIMENSIONS (UNIT: mm)

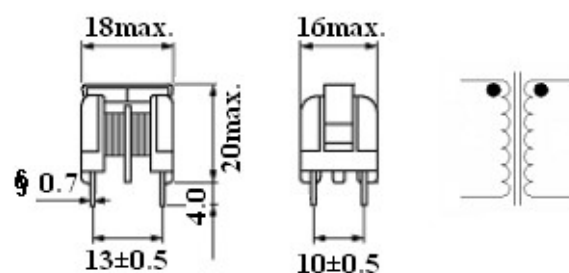
#### LFU09V SHAPE



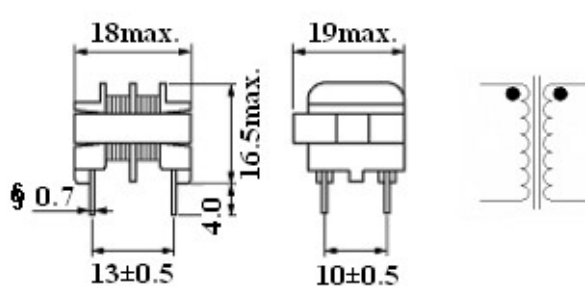
#### LFU09H SHAPE



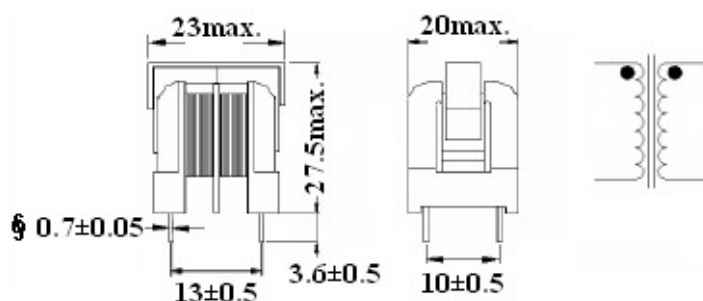
#### LFU10V SHAPE



#### LFU10H SHAPE



#### LFU16V SHAPE



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## LINE FILTERS / LFU TYPE

### ELECTRICAL CHARACTERISTICS

| Part No.             | Inductance (mH) | DC Resistance ( $\Omega$ ) | Rated Current (A) |
|----------------------|-----------------|----------------------------|-------------------|
| LFU 09 H<br>LFU 09 V | 0.5 - 10        | 0.30 - 8.0                 | 0.1 - 1.0         |
| LFU 10 H<br>LFU 10 V | 0.6 - 10        | 0.15 - 3.0                 | 0.3 - 2.0         |
| LFU 16 V             | 1.5 - 30        | 0.15 - 2.8                 | 0.4 - 1.5         |

\*DESIGN AS CUSTOMER'S REQUESTED SPECIFICATIONS



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## RADIAL CHOKE INDUCTORS / RC TYPE

### FEATURES

- ◆ High rated current for high current circuits. Designed by special lead wire to prevent open circuit failure.
- ◆ Low cost with rugged reliability and performance fixed inductor.

### APPLICATIONS

- ◆ Excellent as DC-DC converter boost or buck inductors. Also used for filtering applications.

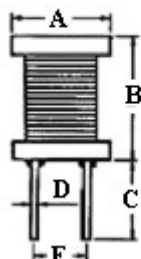


### ORDERING CODE

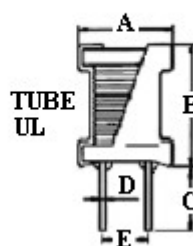
|    |      |         |   |                             |
|----|------|---------|---|-----------------------------|
| RC | 0608 | U - 151 | □ |                             |
|    |      |         |   | Tolerance ( K:±10%, M:±20%) |
|    |      |         |   | Inductance                  |
|    |      |         |   | U: UL Tube                  |
|    |      |         |   | Dimension (AxB)             |
|    |      |         |   | Product Symbol              |

### SHAPES

(WITHOUT TUBE)



(WITH UL TUBE)



### DIMENSIONS UNIT: mm (WITH UL TUBE)

| Part No. | A (Max) | B (Max) | C (±2) | D (Typ) | E (Ref.) |
|----------|---------|---------|--------|---------|----------|
| RC 0406  | 6.0     | 8.0     | 15     | 0.50    | 2.0      |
| RC 0608  | 8.0     | 11.0    | 15     | 0.60    | 3.0      |
| RC 0810  | 10.0    | 13.0    | 15     | 0.65    | 5.0      |
| RC 0912  | 11.0    | 15.0    | 15     | 0.80    | 5.0      |
| RC 1012  | 12.5    | 15.0    | 15     | 0.80    | 6.0      |
| RC 1016  | 12.5    | 19.0    | 15     | 0.80    | 6.0      |

\*DESIGN AS CUSTOMER'S REQUESTED SPECIFICATIONS



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## SHIELDED RADIAL CHOKE INDUCTORS / SRC TYPE

### FEATURES

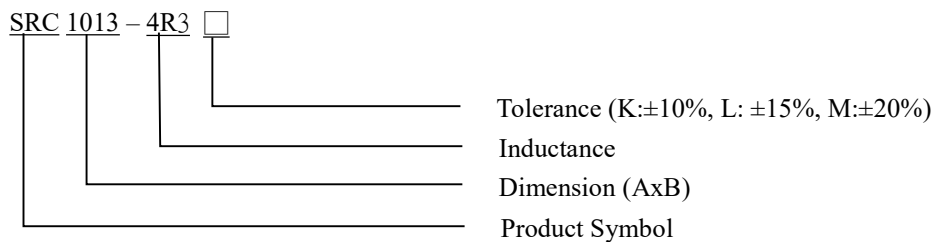
- ◆ Low distortion.
- ◆ Ferrite Shielded.

### APPLICATIONS

- ◆ Excellent as DC-DC converter boost or buck inductors. Also used for filtering applications.



### ORDERING CODE



### SHAPES

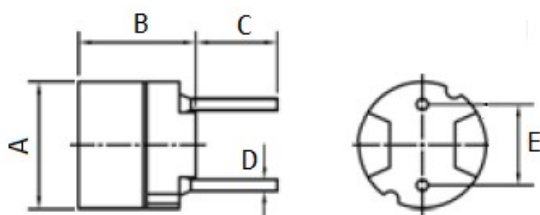


Fig. 1

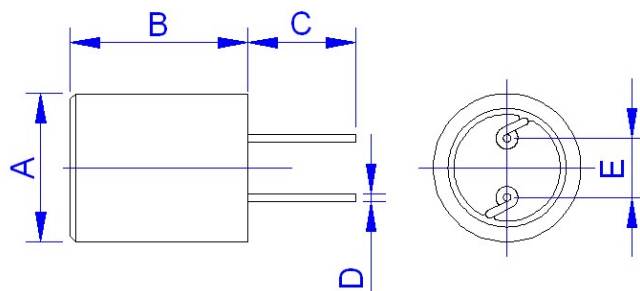


Fig. 2

### DIMENSIONS UNIT: mm

| Part No. | Fig. | A (MAX) | B (MAX) | C (REF) | D (REF) | E (REF) |
|----------|------|---------|---------|---------|---------|---------|
| SRC0606  | 1    | 6.5     | 7.0     | 5.0     | 0.5     | 4.0     |
| SRC0807  | 1    | 8.3     | 7.8     | 5.0     | 0.6     | 5.0     |
| SRC1013  | 2    | 11      | 14.5    | 5.0     | 0.7     | 5.0     |
| SRC1317  | 2    | 14      | 18.5    | 5.0     | 0.7     | 5.0     |
| SRC1616  | 2    | 17      | 17.5    | 5.0     | 0.8     | 7.5     |
| SRC1619  | 2    | 17      | 20.5    | 5.0     | 1.0     | 7.5     |

\*DESIGN AS CUSTOMER'S REQUESTED SPECIFICATIONS



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## SMD COMMON MODE EMI FILTER / WCB TYPE

### FEATURES

Miniature SMD type common mode filter for fully automated assembly.  
Wide impedance range ( $25\Omega \sim 2200\Omega$ ) for noise suppression.  
Excellent Solderability.

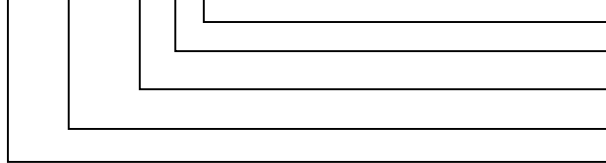


### APPLICATIONS

- ◆ Communication devices.
- ◆ Industrial systems.
- ◆ Precision instruments.

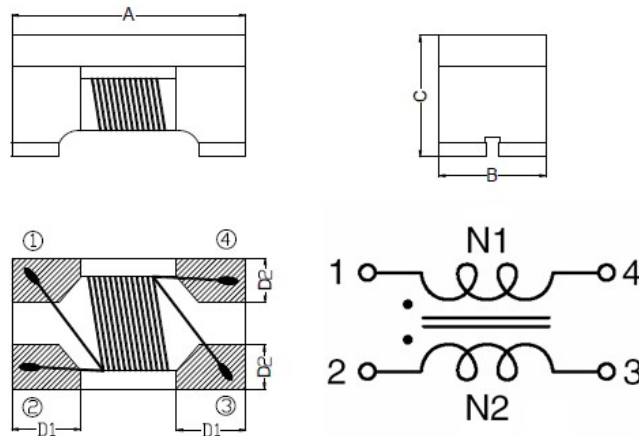
### ORDERING CODE

WCB 2012 - 900 Y-N



Note: lead-free  
Tolerance ( Y:±25%)  
Impedance  
Dimension (AxB)  
SMD Common Mode

### SHAPES



### DIMENSIONS (UNIT: mm)

| Part No. | A (±0.2) | B (±0.2) | C (±0.2) | D1 (Ref.) | D2 (Ref.) |
|----------|----------|----------|----------|-----------|-----------|
| WCB 2012 | 2.00     | 1.20     | 1.20     | 0.55      | 0.46      |
| WCB 3216 | 3.20     | 1.60     | 2.00     | 0.50      | 0.50      |



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## SMD COMMON MODE EMI FILTER / WCB TYPE

### ELECTRICAL CHARACTERISTICS FOR WCB2012

| Part No.        | Impedance<br>( $\Omega$ )100MHz | DC Resistance<br>( $\Omega$ ) Max | Rated Current<br>(mA)Max |
|-----------------|---------------------------------|-----------------------------------|--------------------------|
| WCB 2012-250Y-N | 25                              | 0.20                              | 500                      |
| WCB 2012-300Y-N | 30                              | 0.20                              | 450                      |
| WCB 2012-400Y-N | 40                              | 0.20                              | 450                      |
| WCB 2012-420Y-N | 42                              | 0.20                              | 450                      |
| WCB 2012-500Y-N | 50                              | 0.25                              | 450                      |
| WCB 2012-670Y-N | 67                              | 0.25                              | 400                      |
| WCB 2012-750Y-N | 75                              | 0.35                              | 330                      |
| WCB 2012-900Y-N | 90                              | 0.35                              | 330                      |
| WCB 2012-101Y-N | 100                             | 0.35                              | 330                      |
| WCB 2012-121Y-N | 120                             | 0.35                              | 330                      |
| WCB 2012-161Y-N | 160                             | 0.35                              | 300                      |
| WCB 2012-181Y-N | 180                             | 0.35                              | 300                      |
| WCB 2012-201Y-N | 200                             | 0.35                              | 300                      |
| WCB 2012-221Y-N | 220                             | 0.40                              | 300                      |
| WCB 2012-261Y-N | 260                             | 0.40                              | 300                      |
| WCB 2012-301Y-N | 300                             | 0.50                              | 280                      |
| WCB 2012-331Y-N | 330                             | 0.50                              | 280                      |
| WCB 2012-361Y-N | 360                             | 0.50                              | 280                      |
| WCB 2012-371Y-N | 370                             | 0.50                              | 250                      |
| WCB 2012-391Y-N | 390                             | 0.80                              | 250                      |
| WCB 2012-501Y-N | 500                             | 0.80                              | 250                      |
| WCB 2012-601Y-N | 600                             | 0.88                              | 250                      |
| WCB 2012-801Y-N | 800                             | 0.88                              | 250                      |
| WCB 2012-921Y-N | 920                             | 0.95                              | 160                      |
| WCB 2012-222Y-N | 2200                            | 1.40                              | 100                      |

### ELECTRICAL CHARACTERISTICS FOR WCB3216

| Part No.        | Impedance<br>( $\Omega$ )100MHz | DC Resistance<br>( $\Omega$ ) Max | Rated Current<br>(mA)Max |
|-----------------|---------------------------------|-----------------------------------|--------------------------|
| WCB 3216-900Y-N | 90                              | 0.30                              | 400                      |
| WCB 3216-161Y-N | 160                             | 0.35                              | 350                      |
| WCB 3216-221Y-N | 220                             | 0.45                              | 300                      |



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# SMD COMMON MODE TOROIDS COILS / SFT TYPE

## FEATURES

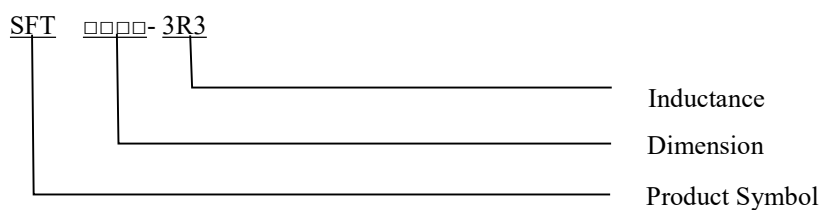
- ◆ Reduced components height
- ◆ High rated currents
- ◆ Suitable for reflow soldering
- ◆ RoHS-compatible



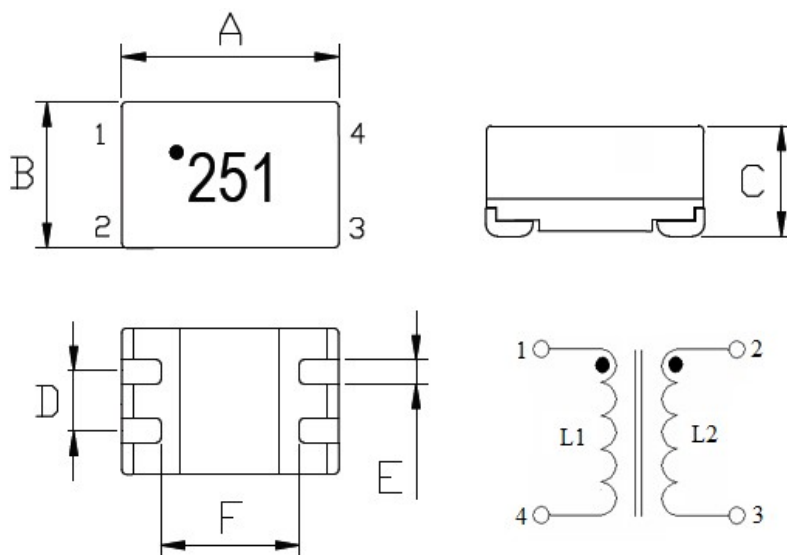
## APPLICATIONS

- ◆ Industrial applications.
- ◆ Telecom applications.

## ORDERING CODE



## SHAPES



## DIMENSIONS (UNIT: mm)

| Part No. | A         | B         | C         | D          | E         | F         |
|----------|-----------|-----------|-----------|------------|-----------|-----------|
| SFT0905  | 9.2 ± 0.3 | 6.0 ± 0.3 | 5.0 ± 0.3 | 2.54 ± 0.3 | 1.0 (REF) | 5.7 (REF) |



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## SMD COMMON MODE TOROIDS COILS / SFT TYPE

### ELECTRICAL CHARACTERISTICS FOR SFT0905

| Part No.     | Inductance<br>L1=L2<br>(uH) | Test Frequency<br>(KHz) | RDC<br>RDC1=RDC2<br>(mΩ) MAX | IDC<br>(A) MAX |
|--------------|-----------------------------|-------------------------|------------------------------|----------------|
| SFT0905-100□ | 10 ±50%                     | 1KHz / 0.1V             | 80                           | 1.6            |
| SFT0905-250□ | 25 ±50%                     | 1KHz / 0.1V             | 120                          | 1.3            |
| SFT0905-400□ | 40 ±50%                     | 1KHz / 0.1V             | 120                          | 1.3            |
| SFT0905-510□ | 51 ±50%                     | 1KHz / 0.1V             | 120                          | 1.3            |
| SFT0905-251□ | 250 ± 50%                   | 100KHz / 0.05V          | 130                          | 1.2            |
| SFT0905-501□ | 500 ± 50%                   | 100KHz / 0.05V          | 150                          | 1.0            |
| SFT0905-102□ | 1000 ± 50%                  | 100KHz / 0.05V          | 310                          | 0.8            |
| SFT0905-202□ | 2000 ± 50%                  | 100KHz / 0.05V          | 420                          | 0.6            |
| SFT0905-472□ | 4700 ± 50%                  | 100KHz / 0.05V          | 900                          | 0.4            |
| SFT0905-652□ | 6500 ± 50%                  | 100KHz / 0.05V          | 1050                         | 0.3            |



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## SMD COMMON MODE TOROIDS COILS / SHT TYPE

### FEATURES

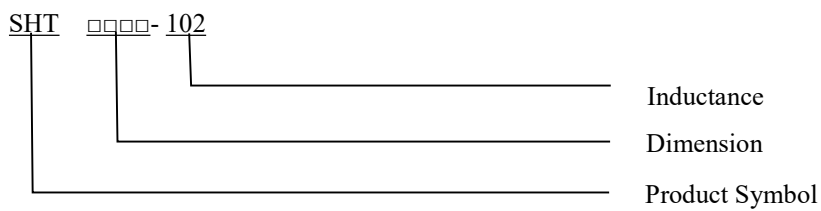
- ◆ Reduced components height
- ◆ High rated currents
- ◆ Suitable for reflow soldering
- ◆ RoHS-compatible



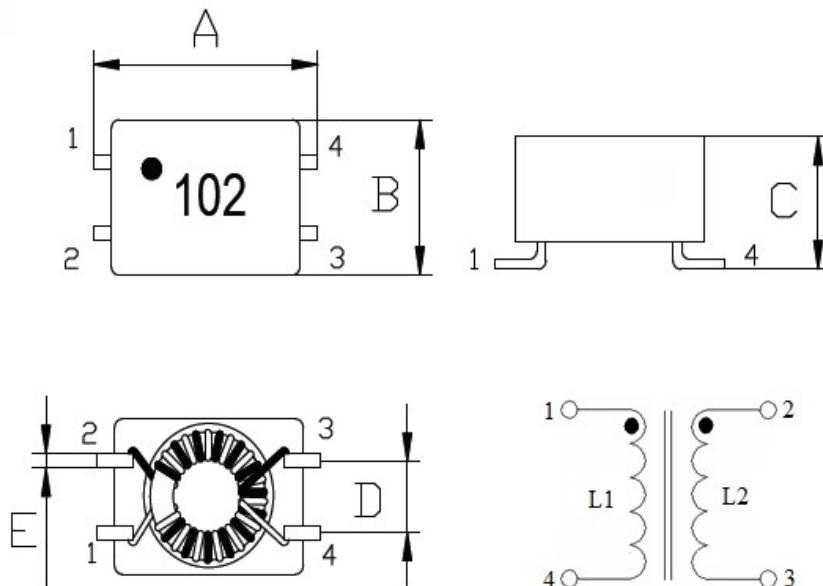
### APPLICATIONS

- ◆ Industrial equipment.
- ◆ Telecommunication systems.

### ORDERING CODE



### SHAPES



### DIMENSIONS (UNIT: mm)

| Part No. | A             | B             | C         | D              | E         |
|----------|---------------|---------------|-----------|----------------|-----------|
| SHT0905  | $9.0 \pm 0.5$ | $5.5 \pm 0.4$ | 5.2 (MAX) | $2.54 \pm 0.3$ | 0.5 (REF) |



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## SMD COMMON MODE TOROIDS COILS / SHT TYPE

### ELECTRICAL CHARACTERISTICS FOR SHT0905

| Part No.     | Inductance<br>L1=L2<br>(uH) | Test Frequency<br>(KHz) | RDC<br>RDC1=RDC2<br>(mΩ) MAX | IDC<br>(A) MAX |
|--------------|-----------------------------|-------------------------|------------------------------|----------------|
| SHT0905-110□ | 11 ±50%                     | 100KHz / 0.1V           | 120                          | 1.0            |
| SHT0905-250□ | 25 ±50%                     | 100KHz / 0.1V           | 120                          | 0.9            |
| SHT0905-510□ | 51 ±50%                     | 100KHz / 0.1V           | 195                          | 0.8            |
| SHT0905-101□ | 100 ±50%                    | 100KHz / 0.1V           | 250                          | 0.7            |
| SHT0905-471□ | 470 ±50%                    | 100KHz / 0.1V           | 280                          | 0.7            |
| SHT0905-102□ | 1000 ±50%                   | 100KHz / 0.1V           | 300                          | 0.7            |
| SHT0905-222□ | 2200 ±50%                   | 100KHz / 0.1V           | 400                          | 0.5            |
| SHT0905-472□ | 4700 ±50%                   | 100KHz / 0.1V           | 700                          | 0.4            |



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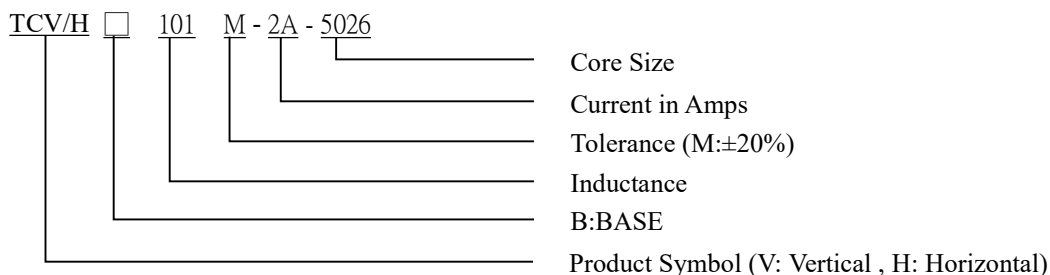
## WOUND TOROIDS COILS / TC TYPE

### APPLICATIONS

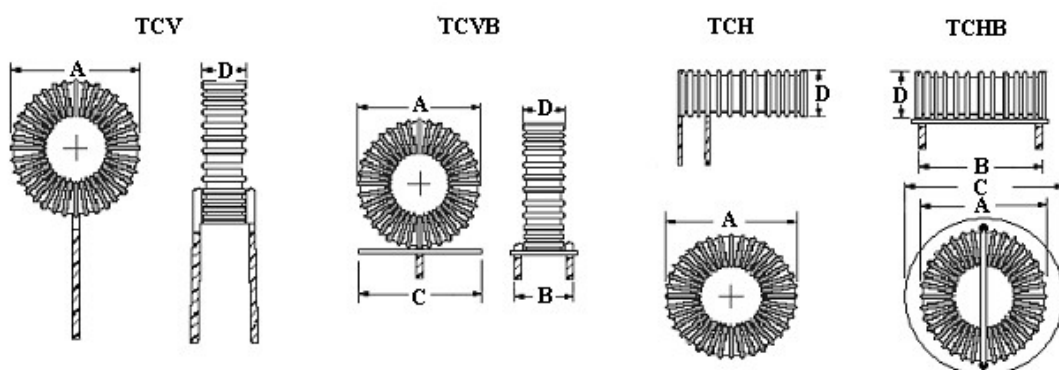
- ◆ EMI filtering.
- ◆ Switching circuits.
- ◆ Power systems.



### ORDERING CODE



### SHAPES



### DIMENSIONS (UNIT: mm)

| Part No. | A (Max)     | B (Max) | C (Max) | D (Max)    |
|----------|-------------|---------|---------|------------|
| TCV      | 7.5 ~ 42.5  |         |         | 5.5 ~ 21.5 |
| TCVB     | 12.0 ~ 39.0 | 10 ~ 20 | 11 ~ 30 | 7.0 ~ 18.5 |
| TCH      | 7.5 ~ 42.5  |         |         | 5.5 ~ 21.5 |
| TCHB     | 12.0 ~ 39.0 | 9 ~ 36  | 13 ~ 42 | 7.0 ~ 18.5 |

\*DESIGN AS CUSTOMER'S REQUESTED SPECIFICATIONS



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## EMI BEADS (DIP) / RHWT TYPE

### FEATURES

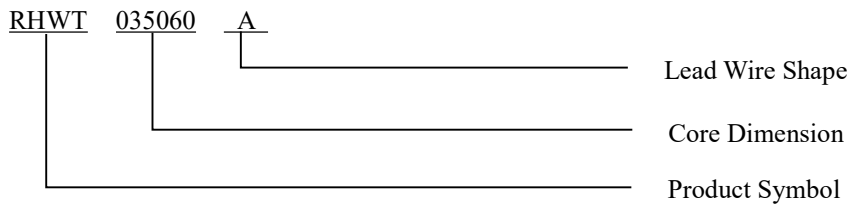
- ◆ Employ high performance ferrites with superior frequency characteristics.

### APPLICATIONS

- ◆ Prevent spike noise.
- ◆ Prevent intrusion and radiation of unnecessary signals into the clock pulse oscillation section and various interfaces.



### ORDERING CODE



### LEAD WIRE SHAPE & TAPING SHAPE (UNIT: mm)

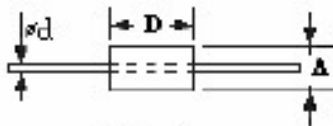


Fig. A

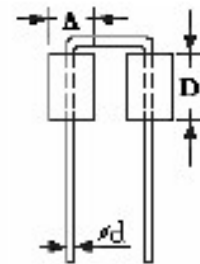
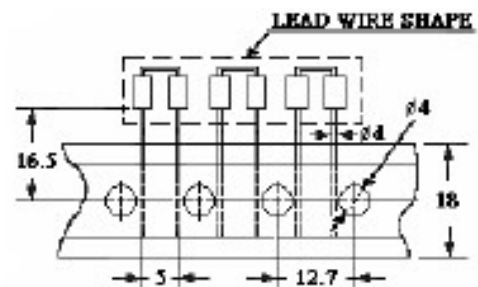
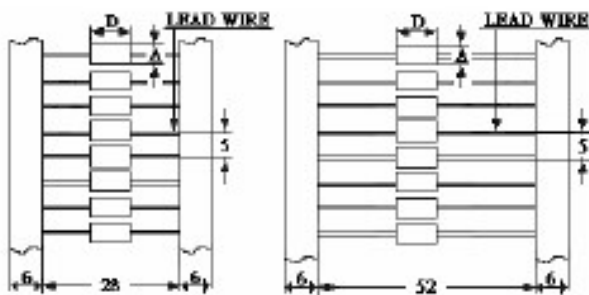


Fig. B



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## EMI BEADS (DIP) / RHWT TYPE

**DIMENSIONS (UNIT: mm)**

| PartNo.              | Fig. | A             | D             | $\Phi d (\pm 0.05)$ | Impedance ( $\Omega$ ) Min |        |
|----------------------|------|---------------|---------------|---------------------|----------------------------|--------|
|                      |      |               |               |                     | 25MHz                      | 100MHz |
| <b>RHWT 025030</b>   | A    | 2.5 $\pm$ 0.2 | 3.0 $\pm$ 0.3 | 0.65                | 20                         | 40     |
| <b>RHWT 025045</b>   |      | 2.5 $\pm$ 0.2 | 4.5 $\pm$ 0.3 | 0.65                | 30                         | 50     |
| <b>RHWT 035030</b>   |      | 3.5 $\pm$ 0.2 | 3.0 $\pm$ 0.3 | 0.65                | 20                         | 40     |
| <b>RHWT 035045</b>   |      | 3.5 $\pm$ 0.2 | 4.5 $\pm$ 0.3 | 0.65                | 35                         | 60     |
| <b>RHWT 035050</b>   |      | 3.5 $\pm$ 0.2 | 5.0 $\pm$ 0.3 | 0.65                | 35                         | 60     |
| <b>RHWT 035060</b>   |      | 3.5 $\pm$ 0.2 | 6.0 $\pm$ 0.3 | 0.65                | 40                         | 70     |
| <b>RHWT 035080</b>   |      | 3.5 $\pm$ 0.2 | 8.0 $\pm$ 0.3 | 0.65                | 45                         | 70     |
| <b>RHWT 035090</b>   |      | 3.5 $\pm$ 0.2 | 9.0 $\pm$ 0.3 | 0.65                | 55                         | 90     |
| <b>RHWT 035045X2</b> | B    | 3.5 $\pm$ 0.2 | 4.5 $\pm$ 0.3 | 0.65                | 60                         | 90     |
| <b>RHWT 035050X2</b> |      | 3.5 $\pm$ 0.2 | 5.0 $\pm$ 0.3 | 0.65                | 65                         | 110    |
| <b>RHWT 035060X2</b> |      | 3.5 $\pm$ 0.2 | 6.0 $\pm$ 0.3 | 0.65                | 70                         | 130    |



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## FLAT CABLE EMI CORES / FP TYPE

### APPLICATIONS

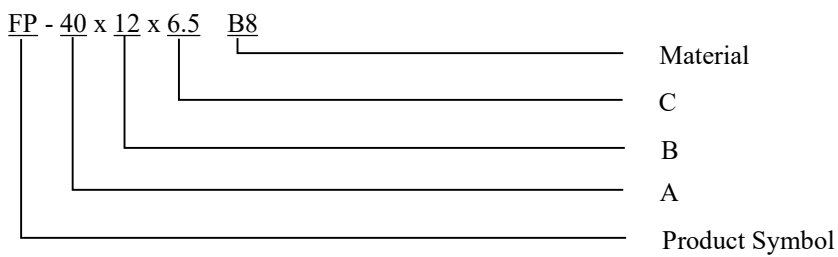
- ◆ Internal floppy disk and harddisk ribbon cables.
- ◆ Internal ribbon cables between circuit boards and data connectors.
- ◆ Internal ribbon cables with series digital signal busses.



### MATERIAL

B8 B10 B15

### ORDERING CODE



### SHAPES

Fig.1

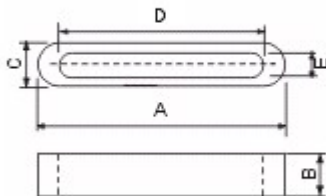
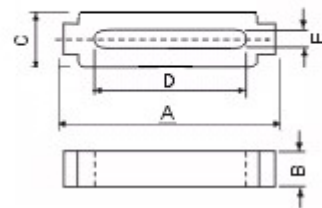


Fig.2



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## FLAT CABLE EMI CORES / FP TYPE

### DIMENSIONS (UNIT: mm)

| Part No.         | Fig. | Dimension    |            |           |               |             |
|------------------|------|--------------|------------|-----------|---------------|-------------|
|                  |      | A            | B          | C         | D             | E           |
| FP-12X19X9       | 1    | 12.0 ± 0.3   | 19.0 ± 0.5 | 9.0 ± 0.3 | 7.5 ± 0.3     | 4.5 ± 0.3   |
| FP-13.5X6X2      | 1    | 13.5 ± 0.3   | 6.0 ± 0.3  | 2.0 ± 0.3 | 11.0 ± 0.3    | 0.5+0.4-0   |
| FP-16X8X5        | 1    | 16.0+0.2-0.5 | 8.0 ± 0.3  | 5.0+0-0.6 | 11.5+0.5-0.1  | 0.5+0.5-0   |
| FP-18X8X5        | 1    | 18.0 ± 1.0   | 8.0 ± 0.5  | 5.0 ± 0.3 | 14.0 ± 0.5    | 1.0 ± 0.5   |
| FP-19X6X6.5      | 1    | 19.0 ± 0.8   | 6.0 ± 0.5  | 6.5 ± 0.3 | 13.5 ± 0.6    | 1.5 ± 0.3   |
| FP-19X12X6.5     | 1    | 19.0 ± 0.8   | 12.0 ± 0.5 | 6.5 ± 0.3 | 13.5 ± 0.6    | 1.5 ± 0.3   |
| FP-23.8X12.5X6.3 | 1    | 23.8 ± 0.7   | 12.5 ± 0.5 | 6.3 ± 0.5 | 18.4 ± 0.5    | 1.1 ± 0.3   |
| FP-23.8X12.5X6.5 | 1    | 23.8 ± 1.0   | 12.5 ± 0.6 | 6.5 ± 0.5 | 18.5 ± 0.7    | 1.5 ± 0.5   |
| FP-25X12X5       | 1    | 25.0 ± 0.8   | 12.0 ± 0.5 | 5.0 ± 0.4 | 21.0 ± 0.7    | 1.2 ± 0.3   |
| FP-28X10X7.7     | 2    | 28.0 ± 0.8   | 10.0 ± 0.4 | 7.7 ± 0.4 | 23.0 ± 0.5    | 1.4 ± 0.2   |
| FP-28X14.6X7.7   | 2    | 28.0 ± 0.8   | 14.6 ± 0.4 | 7.7 ± 0.3 | 23.0 ± 0.5    | 1.4 ± 0.3   |
| FP-29X10X8       | 1    | 29.0 ± 0.8   | 10.0 ± 0.5 | 8.0 ± 0.5 | 22.0 ± 0.8    | 2.5 ± 0.4   |
| FP-31X12X5       | 1    | 31.0 ± 0.8   | 12.0 ± 0.5 | 5.0 ± 0.3 | 27.0 ± 0.8    | 0.5+0.7-0.1 |
| FP-33.5X12X6.5   | 1    | 33.5 ± 1.0   | 12.0 ± 0.5 | 6.5 ± 0.5 | 27.5 ± 1.0    | 1.5 ± 0.5   |
| FP-40X12X6.5     | 1    | 40.0 ± 1.2   | 12.0 ± 0.5 | 6.5 ± 0.3 | 33.5 ± 1.5    | 1.5 ± 0.3   |
| FP-41X15X7.7     | 1    | 41.0 ± 1.2   | 15.0 ± 0.4 | 7.7 ± 0.4 | 34.5 ± 1.2    | 1.8 ± 0.4   |
| FP-49.6X12X6.5   | 1    | 49.6 ± 1.5   | 12.0 ± 0.4 | 6.5 ± 0.5 | 43.0 ± 1.0    | 1.5 ± 0.5   |
| FP-57.9X12X7     | 1    | 57.9 ± 0.7   | 12.0 ± 0.3 | 7.0 ± 0.3 | 52.0 +1.0-0.2 | 1.3 + 0.6-0 |



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## NI-ZN EMI BEAD CORES / RH TYPE

### FEATURES

- ◆ Easy installation
- ◆ Compact and high performance



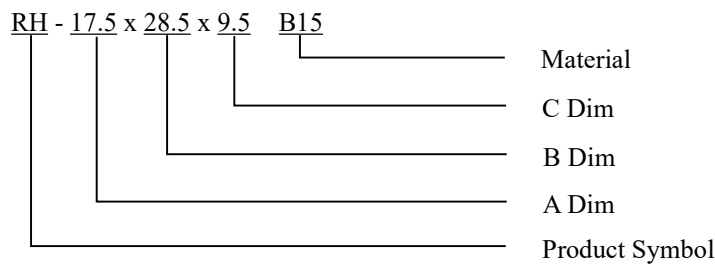
### APPLICATIONS

- ◆ Countermeasures against radiated emissions.
- ◆ For full compliance with FCC regulations and VCCI.
- ◆ Improvement of noise immunity of personal computers, microcomputers, peripheral and relative devices.

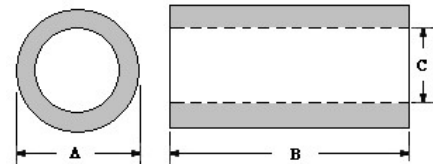
### MATERIAL

B8    B10    B15    B18

### ORDERING CODE



### SHAPES



### DIMENSIONS (Unit: mm)

| Cores               | A           | B            | C           |
|---------------------|-------------|--------------|-------------|
| RH-2.3 x 4.5 x 0.8  | 2.30 ± 0.15 | 4.50 ± 0.30  | 0.80 ± 0.15 |
| RH-3 x 3 x 0.8      | 3.00 ± 0.15 | 3.00 ± 0.20  | 0.80 ± 0.15 |
| RH-3 x 4 x 1        | 3.00 ± 0.15 | 4.00 ± 0.30  | 1.00 ± 0.15 |
| RH-3.5 x 8.9 x 0.8  | 3.50 ± 0.15 | 8.90 ± 0.30  | 0.80 ± 0.15 |
| RH-3.5 x 12 x 1.2   | 3.50 ± 0.15 | 12.00 ± 0.40 | 1.20 ± 0.15 |
| RH-3.5 x 10 x 1.5   | 3.50 ± 0.15 | 10.00 ± 0.40 | 1.50 ± 0.15 |
| RH-3.5 x 13.8 x 0.8 | 3.50 ± 0.15 | 13.80 ± 0.40 | 0.80 ± 0.15 |
| RH-3.8 x 8 x 1.8    | 3.80 ± 0.15 | 8.00 ± 0.40  | 1.80 ± 0.15 |
| RH-4 x 5 x 2        | 4.00 ± 0.20 | 5.00 ± 0.30  | 2.00 ± 0.15 |
| RH-4 x 20 x 2       | 4.00 ± 0.20 | 20.00 ± 0.50 | 2.00 ± 0.15 |
| RH-4.1 x 10 x 1.6   | 4.10 ± 0.20 | 10.00 ± 0.40 | 1.60 ± 0.15 |
| RH-5 x 10 x 1.5     | 5.00 ± 0.30 | 10.00 ± 0.40 | 1.50 ± 0.15 |
| RH-6 x 10 x 3       | 6.00 ± 0.30 | 10.00 ± 0.40 | 3.00 ± 0.20 |
| RH-6.5 x 10 x 4.3   | 6.50 ± 0.30 | 10.00 ± 0.40 | 4.30 ± 0.20 |
| RH-7 x 20 x 4       | 7.00 ± 0.30 | 20.00 ± 0.50 | 4.00 ± 0.25 |
| RH-7.5 x 19 x 2.8   | 7.50 ± 0.30 | 19.00 ± 0.50 | 2.80 ± 0.20 |
| RH-7.75 x 19 x 4    | 7.75 ± 0.30 | 19.00 ± 0.50 | 4.00 ± 0.25 |
| RH-8 x 18 x 3       | 8.00 ± 0.30 | 18.00 ± 0.50 | 3.00 ± 0.20 |
| RH-8 x 9.2 x 4      | 8.00 ± 0.30 | 9.20 ± 0.30  | 4.00 ± 0.25 |
| RH-8 x 20 x 5.6     | 8.00 ± 0.30 | 20.00 ± 0.60 | 5.60 ± 0.25 |
| RH-9 x 16 x 5       | 9.00 ± 0.30 | 16.00 ± 0.50 | 5.00 ± 0.25 |
| RH-9.5 x 18.2 x 2.8 | 9.50 ± 0.30 | 18.20 ± 0.50 | 2.80 ± 0.20 |
| RH-9.5 x 10 x 5     | 9.50 ± 0.30 | 10.00 ± 0.40 | 5.00 ± 0.25 |
| RH-9.8 x 14 x 5.6   | 9.80 ± 0.30 | 14.00 ± 0.50 | 5.60 ± 0.25 |
| RH-9.8 x 25 x 7     | 9.80 ± 0.30 | 25.00 ± 0.70 | 7.00 ± 0.30 |



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## NI-ZN EMI BEAD CORES / RH TYPE

**DIMENSIONS (Unit: mm)**

| Cores                  | A            | B            | C            |
|------------------------|--------------|--------------|--------------|
| RH-10 x 10 x 5         | 10.00 ± 0.40 | 10.00 ± 0.40 | 5.00 ± 0.25  |
| RH-10.5 x 20 x 5.6     | 10.50 ± 0.40 | 20.00 ± 0.60 | 5.60 ± 0.25  |
| RH-10.5 x 20 x 6       | 10.50 ± 0.40 | 20.00 ± 0.60 | 6.00 ± 0.30  |
| RH-11.5 x 18 x 5.2     | 11.50 ± 0.40 | 18.00 ± 0.50 | 5.20 ± 0.25  |
| RH-11.5 x 25 x 7.1     | 11.50 ± 0.40 | 25.00 ± 0.70 | 7.10 ± 0.30  |
| RH-12 x 25 x 4         | 12.00 ± 0.40 | 25.00 ± 0.70 | 4.00 ± 0.25  |
| RH-12 x 25.6 x 5.2     | 12.00 ± 0.40 | 25.60 ± 0.70 | 5.20 ± 0.25  |
| RH-12 x 20 x 6.35      | 12.00 ± 0.40 | 20.00 ± 0.60 | 6.35 ± 0.30  |
| RH-12 x 25 x 7.1       | 12.00 ± 0.40 | 25.00 ± 0.70 | 7.10 ± 0.30  |
| RH-12 x 28 x 7.3       | 12.00 ± 0.40 | 28.00 ± 0.70 | 7.30 ± 0.30  |
| RH-12.5 x 20 x 4.9     | 12.50 ± 0.40 | 20.00 ± 0.60 | 4.90 ± 0.30  |
| RH-12.7 x 15 x 7.88    | 12.70 ± 0.40 | 15.00 ± 0.50 | 7.88 ± 0.30  |
| RH-13 x 15.2 x 5.5     | 13.00 ± 0.40 | 15.20 ± 0.50 | 5.50 ± 0.25  |
| RH-13 x 26 x 5.6       | 13.00 ± 0.40 | 26.00 ± 0.70 | 5.60 ± 0.30  |
| RH-13 x 25.4 x 9.4     | 13.00 ± 0.40 | 25.40 ± 0.70 | 9.40 ± 0.30  |
| RH-14 x 28.5 x 5.2     | 14.00 ± 0.50 | 28.50 ± 0.70 | 5.20 ± 0.25  |
| RH-14.27 x 23.5 x 6.35 | 14.27 ± 0.50 | 23.50 ± 0.60 | 6.35 ± 0.30  |
| RH-14.27x 28.5 x 6.35  | 14.27 ± 0.50 | 28.50 ± 0.70 | 6.35 ± 0.30  |
| RH-14.27 x 15 x 7      | 14.27 ± 0.50 | 15.00 ± 0.50 | 7.00 ± 0.30  |
| RH-14.27 x 28 x 7      | 14.27 ± 0.50 | 28.00 ± 0.70 | 7.00 ± 0.30  |
| RH-14.27 x 23.5 x 7.88 | 14.27 ± 0.50 | 23.50 ± 0.60 | 7.88 ± 0.30  |
| RH-14.27 x 23.5 x 8.3  | 14.27 ± 0.50 | 23.50 ± 0.60 | 8.30 ± 0.30  |
| RH-14.27 x 28.5 x 9.15 | 14.27 ± 0.50 | 28.50 ± 0.70 | 9.15 ± 0.30  |
| RH-15 x 28.5 x 7.3     | 15.00 ± 0.50 | 28.50 ± 0.70 | 7.30 ± 0.30  |
| RH-15.25 x 28.5 x 8    | 15.25 ± 0.50 | 28.50 ± 0.70 | 8.00 ± 0.30  |
| RH-15.8 x 28.5 x 7.88  | 15.80 ± 0.50 | 28.50 ± 0.70 | 7.88 ± 0.30  |
| RH-16 x 17 x 4.5       | 16.00 ± 0.50 | 17.00 ± 0.50 | 4.50 ± 0.25  |
| RH-16 x 16 x 7.88      | 16.00 ± 0.50 | 16.00 ± 0.50 | 7.88 ± 0.30  |
| RH-16 x 17 x 9.15      | 16.00 ± 0.50 | 17.00 ± 0.50 | 9.15 ± 0.30  |
| RH-16 x 30 x 9.15      | 16.00 ± 0.50 | 30.00 ± 1.00 | 9.15 ± 0.30  |
| RH-16 x 28.5 x 9.5     | 16.00 ± 0.50 | 28.50 ± 1.00 | 9.50 ± 0.30  |
| RH-16 x 28 x 11        | 16.00 ± 0.50 | 28.00 ± 0.70 | 11.00 ± 0.40 |
| RH-17 x 25 x 4         | 17.00 ± 0.50 | 25.00 ± 0.70 | 4.00 ± 0.30  |
| RH-17.2 x 25 x 7       | 17.20 ± 0.50 | 25.00 ± 0.70 | 7.00 ± 0.30  |
| RH-17.5 x 27 x 8       | 17.50 ± 0.50 | 27.00 ± 0.70 | 8.00 ± 0.30  |
| RH-17.5 x 28.5 x 8     | 17.50 ± 0.50 | 28.50 ± 0.70 | 8.00 ± 0.30  |
| RH-17.5 x 28.5 x 9.5   | 17.50 ± 0.50 | 28.50 ± 0.70 | 9.50 ± 0.30  |
| RH-17.5 x 35 x 9.5     | 17.50 ± 0.50 | 35.00 ± 1.00 | 9.50 ± 0.30  |
| RH-17.5 x 28.5 x 10.6  | 17.50 ± 0.50 | 28.50 ± 0.70 | 10.60 ± 0.40 |
| RH-17.5 x 28.5 x 11    | 17.50 ± 0.50 | 28.50 ± 0.70 | 11.00 ± 0.40 |
| RH-18.2 x 28.5 x 9.5   | 18.20 ± 0.50 | 28.50 ± 0.70 | 9.50 ± 0.30  |
| RH-18.4 x 28.5 x 10.2  | 18.40 ± 0.50 | 28.50 ± 0.70 | 10.20 ± 0.40 |
| RH-18.4 x 50.8 x 11    | 18.40 ± 0.50 | 50.80 ± 1.00 | 11.00 ± 0.40 |
| RH-18.4 x 28.5 x 12.5  | 18.40 ± 0.50 | 28.50 ± 0.70 | 12.50 ± 0.40 |
| RH-19.7 x 28.5 x 11.7  | 19.70 ± 0.50 | 28.50 ± 0.70 | 11.70 ± 0.40 |
| RH-25.9 x 28 x 10.2    | 25.90 ± 0.60 | 28.00 ± 0.70 | 10.20 ± 0.40 |
| RH-26 x 28.5 x 12.8    | 26.00 ± 0.60 | 28.50 ± 0.70 | 12.80 ± 0.50 |
| RH-26 x 28.5 x 16      | 26.00 ± 0.60 | 28.50 ± 0.70 | 16.00 ± 0.50 |
| RH-28 x 28.5 x 16      | 28.00 ± 0.70 | 28.50 ± 0.70 | 16.00 ± 0.50 |



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## NI-ZN TOROID CORES / T TYPE

### FEATURES

- ◆ Minimal effect on transmission waveforms
- ◆ Can be added as First-Aid, On-The Spot countermeasures when equipment or devices fail

### APPLICATIONS

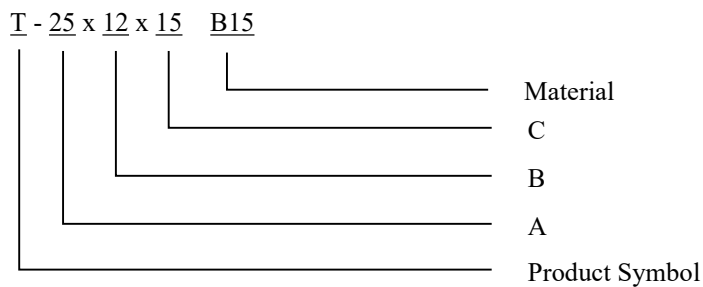
- ◆ Equipment using sensors.
- ◆ TVs, FM/AM Tuners, VTRs/VCRs.
- ◆ Harness noise countermeasures for automobiles Computers, NC machines, and Plain paper copiers.
- ◆ Measuring equipment, OA equipment, terminal equipment and ISDN terminal equipment.



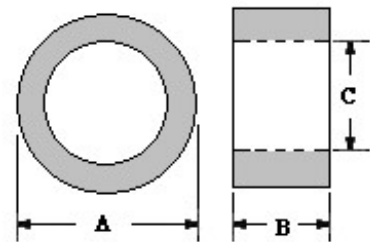
### MATERIAL

B8 B10 B12 B15

### ORDERING CODE



### SHAPES



### DIMENSIONS (Unit: mm)

| Cores                | A           | B           | C           |
|----------------------|-------------|-------------|-------------|
| T-2.5 x 1.2 x 1      | 2.50 ± 0.15 | 1.20 ± 0.20 | 1.00 ± 0.15 |
| T-3.3 x 2 x 2.58     | 3.30 ± 0.15 | 2.00 ± 0.25 | 2.58 ± 0.15 |
| T-3.5 x 2 x 0.85     | 3.50 ± 0.15 | 2.00 ± 0.20 | 0.85 ± 0.15 |
| T-3.5 x 3.1 x 1.2    | 3.50 ± 0.15 | 3.10 ± 0.30 | 1.20 ± 0.15 |
| T-4 x 1 x 2          | 4.00 ± 0.20 | 1.00 ± 0.20 | 2.00 ± 0.20 |
| T-4.5 x 2 x 1.5      | 4.50 ± 0.20 | 2.00 ± 0.20 | 1.50 ± 0.15 |
| T-4.8 x 3 x 2.8      | 4.80 ± 0.20 | 3.00 ± 0.30 | 2.80 ± 0.20 |
| T-6 x 4 x 3          | 6.00 ± 0.30 | 4.00 ± 0.30 | 3.00 ± 0.20 |
| T-6 x 5 x 2          | 6.00 ± 0.30 | 5.00 ± 0.30 | 2.00 ± 0.20 |
| T-6.5 x 5 x 3.3      | 6.50 ± 0.30 | 5.00 ± 0.30 | 3.30 ± 0.20 |
| T-7.75 x 3 x 4       | 7.75 ± 0.30 | 3.00 ± 0.30 | 4.00 ± 0.20 |
| T-8 x 3 x 4          | 8.00 ± 0.30 | 3.00 ± 0.30 | 4.00 ± 0.20 |
| T-8 x 7 x 5.6        | 8.00 ± 0.30 | 7.00 ± 0.30 | 5.60 ± 0.20 |
| T-9 x 3 x 5          | 9.00 ± 0.30 | 3.00 ± 0.30 | 5.00 ± 0.30 |
| T-9.5 x 3.5 x 4.8    | 9.50 ± 0.30 | 3.50 ± 0.30 | 4.80 ± 0.20 |
| T-9.66 x 3.7 x 4.9   | 9.66 ± 0.30 | 3.70 ± 0.30 | 4.90 ± 0.30 |
| T-9.66 x 7.35 x 6.35 | 9.66 ± 0.30 | 7.35 ± 0.30 | 6.35 ± 0.30 |
| T-9.8 x 7.35 x 6.35  | 9.80 ± 0.30 | 7.35 ± 0.30 | 6.35 ± 0.30 |



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## NI-ZN TOROID CORES / T TYPE

| Cores                | A            | B            | C           |
|----------------------|--------------|--------------|-------------|
| T-10 x 6 x 4         | 10.00 ± 0.30 | 6.00 ± 0.30  | 4.00 ± 0.20 |
| T-10 x 4 x 6         | 10.00 ± 0.30 | 4.00 ± 0.30  | 6.00 ± 0.30 |
| T-10 x 10 x 5        | 10.00 ± 0.30 | 10.0 ± 0.40  | 5.00 ± 0.30 |
| T-10.3 x 10.2 x 5.8  | 10.30 ± 0.30 | 10.2 ± 0.40  | 5.80 ± 0.30 |
| T-12 x 6 x 4         | 12.00 ± 0.40 | 6.00 ± 0.30  | 4.00 ± 0.20 |
| T-12 x 4 x 6         | 12.00 ± 0.40 | 4.00 ± 0.30  | 6.00 ± 0.30 |
| T-12 x 10 x 6.5      | 12.00 ± 0.40 | 10.0 ± 0.40  | 6.50 ± 0.30 |
| T-12 x 11 x 8.6      | 12.00 ± 0.40 | 11.0 ± 0.40  | 8.60 ± 0.30 |
| T-12.7 x 6.35 x 7.9  | 12.70 ± 0.40 | 6.35 ± 0.40  | 7.90 ± 0.30 |
| T-12.7 x 12.5 x 7.88 | 12.70 ± 0.40 | 12.5 ± 0.40  | 7.88 ± 0.30 |
| T-13 x 8 x 8.2       | 13.00 ± 0.40 | 8.00 ± 0.30  | 8.20 ± 0.30 |
| T-13.5 x 5 x 7       | 13.50 ± 0.40 | 5.00 ± 0.30  | 7.00 ± 0.30 |
| T-14.2 x 5 x 6.35    | 14.20 ± 0.50 | 5.00 ± 0.30  | 6.35 ± 0.30 |
| T-14.2 x 5 x 9.15    | 14.20 ± 0.50 | 5.00 ± 0.30  | 9.15 ± 0.30 |
| T-14.2 x 10 x 7.45   | 14.20 ± 0.50 | 10.0 ± 0.40  | 7.45 ± 0.30 |
| T-14.2 x 5 x 8.3     | 14.27 ± 0.50 | 5.00 ± 0.30  | 8.30 ± 0.30 |
| T-14.2 x 13.5 x 6.35 | 14.27 ± 0.50 | 13.5 ± 0.40  | 6.35 ± 0.30 |
| T-15.2 x 12.7 x 10.2 | 15.20 ± 0.50 | 12.7 ± 0.40  | 10.2 ± 0.30 |
| T-16 x 12 x 8        | 16.00 ± 0.50 | 12.0 ± 0.40  | 8.00 ± 0.30 |
| T-16 x 12 x 9.15     | 16.00 ± 0.50 | 12.0 ± 0.40  | 9.15 ± 0.30 |
| T-16 x 10 x 8        | 16.00 ± 0.50 | 10.0 ± 0.40  | 8.00 ± 0.30 |
| T-16 x 16 x 7.88     | 16.00 ± 0.50 | 16.0 ± 0.50  | 7.88 ± 0.30 |
| T-17.5 x 6.8 x 10.6  | 17.50 ± 0.50 | 6.80 ± 0.30  | 10.6 ± 0.30 |
| T-17.5 x 12.7 x 10.2 | 17.50 ± 0.50 | 12.7 ± 0.40  | 10.2 ± 0.30 |
| T-18.4 x 9.5 x 12.5  | 18.40 ± 0.50 | 9.50 ± 0.30  | 12.5 ± 0.40 |
| T-20 x 4 x 5.2       | 20.00 ± 0.50 | 4.00 ± 0.30  | 5.20 ± 0.30 |
| T-20 x 10 x 10.2     | 20.00 ± 0.50 | 10.0 ± 0.40  | 10.2 ± 0.30 |
| T-20 x 14.2 x 5.2    | 20.00 ± 0.50 | 14.2 ± 0.40  | 5.20 ± 0.30 |
| T-21.2 x 6 x 12.7    | 21.20 ± 0.50 | 6.00 ± 0.30  | 12.7 ± 0.40 |
| T-22.5 x 6 x 13.8    | 22.50 ± 0.50 | 6.00 ± 0.30  | 13.8 ± 0.50 |
| T-23 x 6.4 x 12.5    | 23.00 ± 0.50 | 6.40 ± 0.30  | 12.5 ± 0.40 |
| T-23 x 9.5 x 12.5    | 23.00 ± 0.50 | 9.50 ± 0.30  | 12.5 ± 0.40 |
| T-23 x 14 x 11       | 23.00 ± 0.50 | 14.0 ± 0.30  | 11.0 ± 0.40 |
| T-24 x 14 x 11       | 24.00 ± 0.60 | 14.0 ± 0.40  | 11.0 ± 0.40 |
| T-25 x 10 x 15       | 25.00 ± 0.60 | 10.0 ± 0.40  | 15.0 ± 0.50 |
| T-25.9 x 14.09 x 17  | 25.90 ± 0.60 | 14.09 ± 0.40 | 17.0 ± 0.50 |
| T-25.9 x 12.7 x 16   | 25.90 ± 0.60 | 12.7 ± 0.40  | 16.0 ± 0.50 |
| T-28 x 3.75 x 5.2    | 28.00 ± 0.70 | 3.75 ± 0.30  | 5.20 ± 0.30 |
| T-28 x 13.4 x 16     | 28.00 ± 0.70 | 13.40 ± 0.40 | 16.0 ± 0.50 |
| T-28 x 19 x 16       | 28.00 ± 0.70 | 19.0 ± 0.50  | 16.0 ± 0.50 |
| T-29 x 14 x 19       | 29.00 ± 0.70 | 14.0 ± 0.30  | 19.0 ± 0.50 |
| T-31 x 7 x 19        | 31.00 ± 0.70 | 7.00 ± 0.30  | 19.0 ± 0.50 |
| T-31 x 16 x 19       | 31.00 ± 0.70 | 16.0 ± 0.50  | 19.0 ± 0.50 |
| T-36 x 12 x 23       | 36.00 ± 0.80 | 12.0 ± 0.40  | 23.0 ± 0.60 |
| T-36 x 22 x 19       | 36.00 ± 0.80 | 22.0 ± 0.60  | 19.0 ± 0.50 |
| T-37.5 x 5.5 x 9.1   | 37.50 ± 0.80 | 5.50 ± 0.30  | 9.10 ± 0.30 |
| T-40 x 15 x 23.4     | 40.00 ± 0.80 | 15.0 ± 0.50  | 23.4 ± 0.60 |
| T-40.6 x 15 x 27.5   | 40.60 ± 1.00 | 15.0 ± 0.40  | 27.5 ± 0.60 |
| T-61.4 x 12.8 x 36   | 61.40 ± 1.30 | 12.8 ± 0.40  | 36.0 ± 0.80 |



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## ROUND CABLE EMI CORES / LF TYPE

### FEATURES

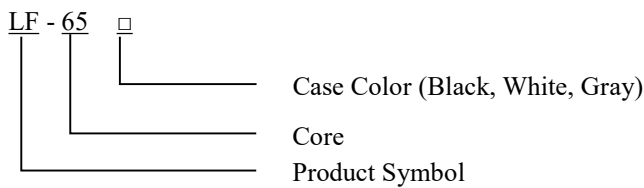
- ◆ Easy installation
- ◆ Internal dimensions are from 4mm to 19 mm diameter.
- ◆ The smooth surface prevents damage to wire insulation.



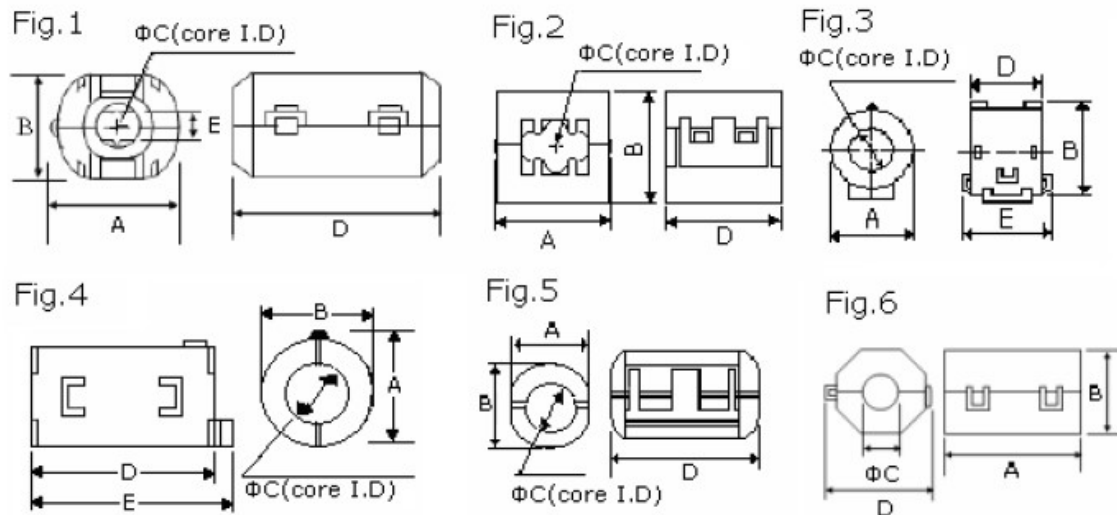
### APPLICATIONS

- ◆ Internal and external power cables.
- ◆ Internal cables between pc boards and data connectors.
- ◆ Computer peripherals, for example digital camera, DVD, fax machine, monitor, printer, and power supply cables.

### ORDERING CODE



### SHAPES



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## ROUND CABLE EMI CORES / LF TYPE

**DIMENSIONS (UNIT:mm)**

| Part No.   | Fig. | A<br>(±1) | B<br>(±1) | C<br>(±1) | D<br>(±1) | E<br>(±1) | Impedance<br>(Ω) Min |         | Use<br>Cable OD |
|------------|------|-----------|-----------|-----------|-----------|-----------|----------------------|---------|-----------------|
|            |      |           |           |           |           |           | 25 MHz               | 100 MHz |                 |
| LF-35      | 5    | 15.0      | 15.0      | 4.0       | 25.2      | ---       | 55                   | 95      | Φ4              |
| LF-50      | 5    | 16.5      | 16.5      | 5.2       | 29.5      | ---       | 50                   | 100     | Φ5              |
| LF-501     | 2    | 15.0      | 14.0      | 5.2       | 23.0      | ---       | 65                   | 135     | Φ5              |
| LF-502     | 1    | 13.0      | 11.8      | 5.0       | 25.5      | ---       | 60                   | 120     | Φ5              |
| LF-503     | 1    | 16.5      | 15.0      | 5.2       | 30.0      | ---       | 108                  | 184     | Φ5              |
| LF-60      | 6    | 18.5      | 14.0      | 6.0       | 15.5      | ---       | 40                   | 70      | Φ6              |
| LF-65      | 2    | 20.5      | 20.0      | 6.5       | 33.0      | ---       | 105                  | 195     | Φ6.5            |
| LF-70      | 4    | 15.5      | 14.0      | 7.0       | 18.0      | 22.0      | 35                   | 75      | Φ7              |
| LF-702     | 1    | 17.0      | 15.0      | 7.0       | 30.0      | ---       | 65                   | 120     | Φ7              |
| LF-75      | 5    | 21.0      | 21.0      | 7.5       | 39.0      | ---       | 80                   | 150     | Φ7.5            |
| LF-801     | 3    | 19.5      | 23.0      | 8.1       | 17.0      | 23.0      | 50                   | 100     | Φ8              |
| LF-802     | 3    | 19.5      | 23.0      | 8.1       | 20.0      | 26.0      | 50                   | 100     | Φ8              |
| LF-901     | 4    | 20.5      | 19.5      | 9.0       | 31.5      | 35.5      | 90                   | 210     | Φ9              |
| LF-902     | 1    | 19.5      | 18.0      | 9.0       | 35.0      | ---       | 80                   | 160     | Φ9              |
| CT-0933    | 1    | 20.9      | 20.9      | 9.3       | 41.8      | ---       | 105                  | 190     | Φ9              |
| CT-0933-2B | 1    | 22.0      | 23.5      | 9.3       | 43.0      | ---       | 100                  | 180     | Φ9              |
| LF-100     | 2    | 25.5      | 23.5      | 10.0      | 33.0      | ---       | 100                  | 200     | Φ10             |
| LF-101     | 3    | 24.5      | 28.5      | 10.2      | 13.5      | 20.0      | 30                   | 70      | Φ10             |
| LF-102     | 1    | 21.5      | 20.0      | 10.0      | 35.0      | ---       | 80                   | 140     | Φ10             |
| LF-110     | 4    | 20.5      | 21.0      | 11.0      | 32.0      | 36.0      | 80                   | 130     | Φ11             |
| LF-120     | 3    | 28.0      | 32.0      | 11.5      | 18.0      | 24.0      | 45                   | 100     | Φ11.5           |
| LF-130     | 2    | 31.5      | 30.0      | 13.0      | 33.0      | ---       | 105                  | 170     | Φ13             |
| LF-1301    | 1    | 23.5      | 22.5      | 13.0      | 36.0      | ---       | 60                   | 130     | Φ13             |
| LF-1302    | 4    | 31.5      | 30.5      | 13.0      | 34.0      | 39.0      | 80                   | 130     | Φ13             |
| LF-150     | 3    | 29.0      | 33.0      | 15.0      | 15.5      | 21.5      | 30                   | 75      | Φ15             |
| LF-190     | 2    | 29.2      | 29.4      | 19.4      | 42.0      | ---       | 80                   | 160     | Φ19             |



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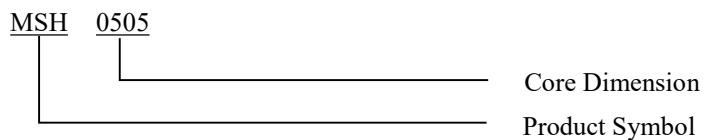
## SMD WIDE BAND CHOKES / MSH TYPE

### APPLICATIONS

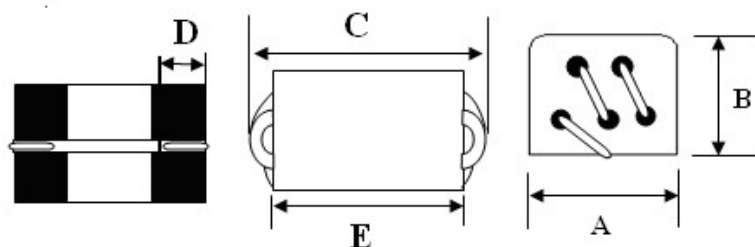
The wide band choke cores are mainly used in the PC boards to filters the EMI from the outsides.



### ORDERING CODE



### SHAPES



### DIMENSIONS & CHARACTERISTICS (UNIT: mm)

| Part No.   | Impedance ( $\Omega$ ) (MIN) |         | A             | B             | C        | D             | E             |
|------------|------------------------------|---------|---------------|---------------|----------|---------------|---------------|
|            | 25 MHz                       | 100 MHz |               |               |          |               |               |
| MSH0505-02 | 128                          | 280     | $5.0 \pm 0.3$ | $4.6 \pm 0.3$ | 8.0 Max  | $1.5 \pm 0.5$ | $5.5 \pm 0.3$ |
| MSH0510-02 | 300                          | 500     | $5.0 \pm 0.3$ | $4.6 \pm 0.3$ | 11.0 Max | $2.0 \pm 0.5$ | $8.4 \pm 0.2$ |



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## SURFACE MOUNT BEADS / FB TYPE

### APPLICATIONS

- ◆ Computer disk drive and PC Board to filter the EMI from Outside source.
- ◆ Car radio.
- ◆ Mobile phone.
- ◆ VCRS.



### ORDERING CODE

|    |        |                |
|----|--------|----------------|
| FB | 403025 |                |
|    |        | Dimension      |
|    |        | Product Symbol |

### SHAPES

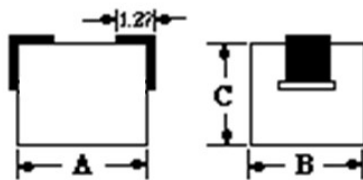


Fig1

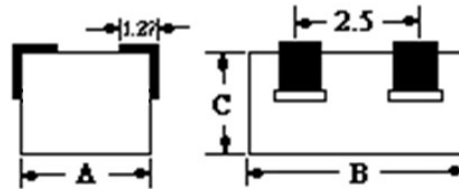


Fig2

### DIMENSIONS (UNIT: mm)

| Part No.   | Fig. | A              | B              | C              | Impedance ( $\Omega$ ) Min |        |
|------------|------|----------------|----------------|----------------|----------------------------|--------|
|            |      |                |                |                | 25MHz                      | 100MHz |
| FB 403025  | 1    | $4.0 \pm 0.20$ | $3.0 \pm 0.20$ | $2.5 \pm 0.20$ | 25                         | 35     |
| FB 853025  | 1    | $8.5 \pm 0.25$ | $3.1 \pm 0.15$ | $2.5 \pm 0.15$ | 60                         | 90     |
| F2B 455625 | 2    | $4.5 \pm 0.25$ | $5.6 \pm 0.20$ | $2.5 \pm 0.20$ | 20                         | 35     |
| F2B 855625 | 2    | $8.5 \pm 0.25$ | $5.6 \pm 0.20$ | $2.5 \pm 0.20$ | 48                         | 70     |



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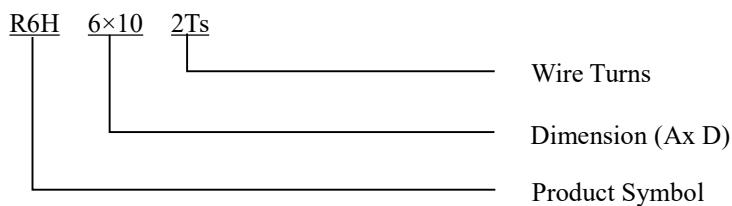
## WIDE BAND CHOKE / R6H TYPE

### APPLICATIONS

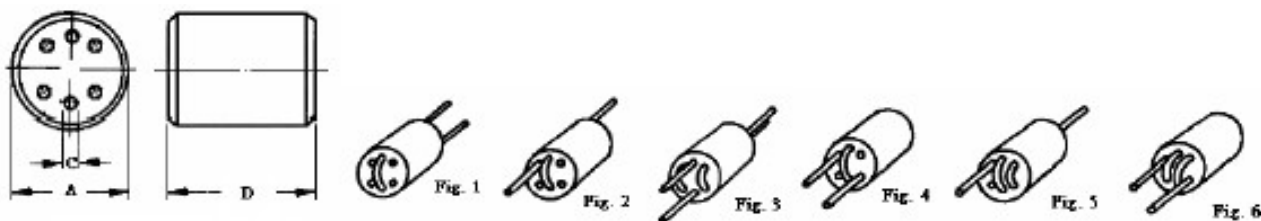
- ◆ R6H Type Cores are used for Wide Band Choke. The impedance is substantially resistive and constant.
- ◆ Used in PC boards to filter the EMI from the outsides.
- ◆ For radio and TV, small motor ignition device, computer disk driver, communication equipment, and etc.



### ORDERING CODE



### SHAPES



### DIMENSIONS & CHARACTERISTICS (UNIT: mm)

| Part No. | Turns   | Fig. | Impedance ( $\Omega$ ) (MIN) |         | A              | C               | D              |
|----------|---------|------|------------------------------|---------|----------------|-----------------|----------------|
|          |         |      | 25 MHz                       | 100 MHz |                |                 |                |
| R6H 6×10 | 1       | 1    | 140                          | 320     | $6.0 \pm 0.25$ | $0.80 \pm 0.15$ | $10.0 \pm 0.4$ |
| R6H 6×10 | 1.5     | 2    | 250                          | 480     | $6.0 \pm 0.25$ | $0.80 \pm 0.15$ | $10.0 \pm 0.4$ |
| R6H 6×10 | 2 x 1.5 | 3    | 300                          | 480     | $6.0 \pm 0.25$ | $0.80 \pm 0.15$ | $10.0 \pm 0.4$ |
| R6H 6×10 | 2       | 4    | 300                          | 600     | $6.0 \pm 0.25$ | $0.80 \pm 0.15$ | $10.0 \pm 0.4$ |
| R6H 6×10 | 2.5     | 5    | 350                          | 640     | $6.0 \pm 0.25$ | $0.80 \pm 0.15$ | $10.0 \pm 0.4$ |
| R6H 6×10 | 3       | 6    | 500                          | 780     | $6.0 \pm 0.25$ | $0.80 \pm 0.15$ | $10.0 \pm 0.4$ |



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