

SHIELDED SMD POWER INDUCTORS / SRI TYPE

FEATURES

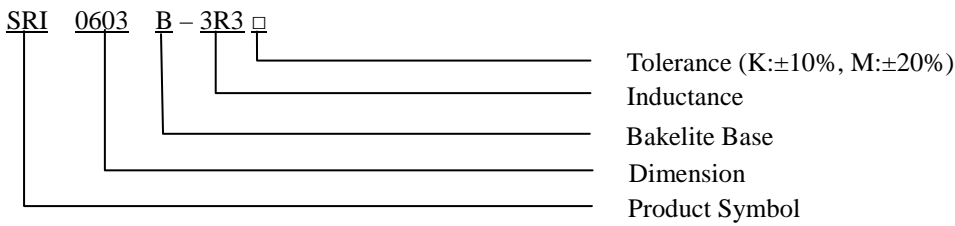
- ◆ Excellent solder ability and high heat resistance for flow soldering.
- ◆ For large current circuits due to its low DC resistance.
- ◆ Excellent in terminal strength due to its high performance ferrite core material and solder ability.



APPLICATIONS

- ◆ Power supply for VTRs.
- ◆ Portable communication equipment.
- ◆ Notebook PCs.
- ◆ LCD televisions.
- ◆ DC/DC converters, etc.

ORDERING CODE



SHAPES

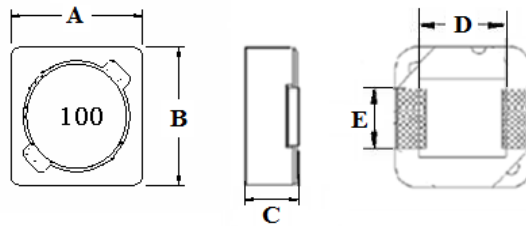


Fig.1

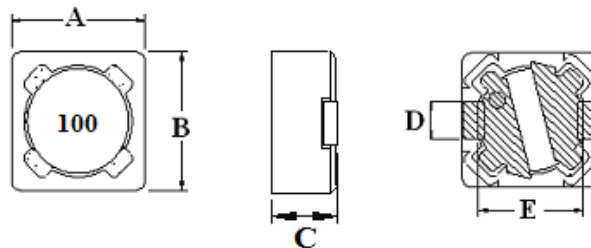


Fig.2

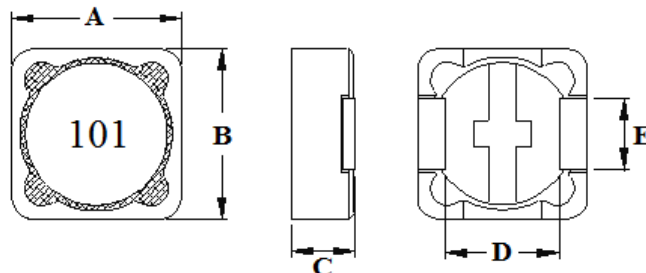


Fig.3

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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 (μH) | 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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ELECTRICAL CHARACTERISTICS FOR SRI0605B

| Part No. | Inductance (uH) | RDC (Ω) | 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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ELECTRICAL CHARACTERISTICS FOR SRI0703

| Part No. | Inductance (uH) | RDC (Ω) | 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 (Ω) | 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 (Ω) | 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 |

SHIELDED SMD POWER INDUCTORS / SRI TYPE

ELECTRICAL CHARACTERISTICS FOR SRI1204

| Part No. | Inductance (uH) | RDC (Ω) | 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 |

SHIELDED SMD POWER INDUCTORS / SRI TYPE

ELECTRICAL CHARACTERISTICS FOR SRI1205

| Part No. | Inductance (uH) | RDC (Ω) | 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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ELECTRICAL CHARACTERISTICS FOR SRI1207

| Part No. | Inductance (uH) | RDC (Ω) | 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 (Ω) | 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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