

# SHIELDED SMD POWER INDUCTORS / NR TYPE

## FEATURES

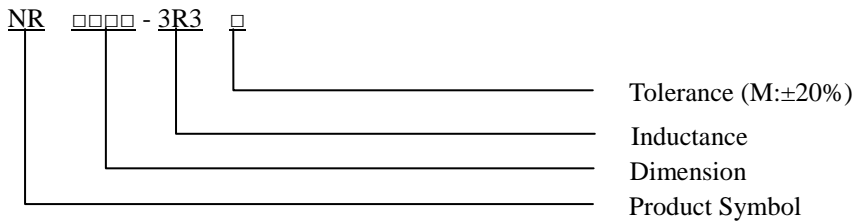
- ◆ Low profile construction and miniature size
- ◆ Magnetic shielded construction
- ◆ High current saturation
- ◆ For new generation portable product D/D converter unit.



## APPLICATIONS

- ◆ For small DC/DC converter (cellular phone, HDD, DVC, DSC, LCD display etc).

## ORDERING CODE



## SHAPES

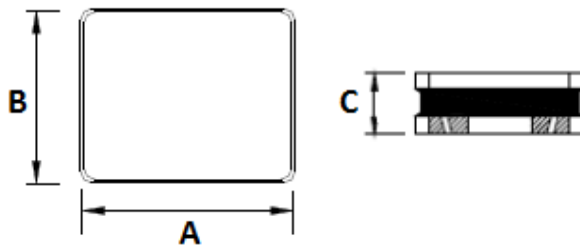


Fig.1

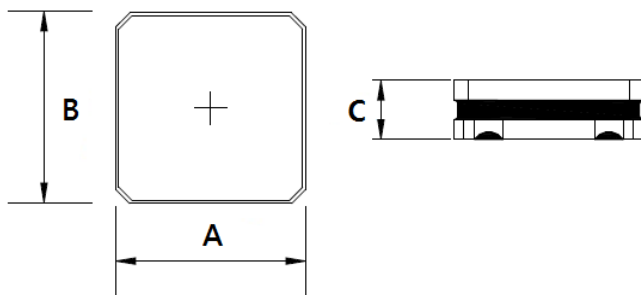


Fig.2

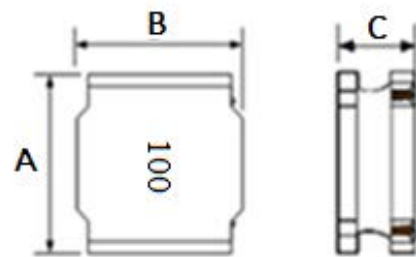


Fig.3

## SHIELDED SMD POWER INDUCTORS / NR TYPE

### DIMENSIONS (UNIT: mm)

Part No.	Fig.	A	B	C (MAX)
NR 2010	1	2.0 ± 0.2	1.6 ± 0.2	1.1
NR 2508	1	2.5 ± 0.2	2.0 ± 0.2	0.8
NR 2512	1	2.5 ± 0.2	2.0 ± 0.2	1.2
NR 3010	2	3.0 ± 0.2	3.0 ± 0.2	1.0
NR 3015	2	3.0 ± 0.2	3.0 ± 0.2	1.5
NR 4010	3	4.0 ± 0.2	4.0 ± 0.2	1.0
NR 4018	3	4.0 ± 0.2	4.0 ± 0.2	1.8
NR 4020	3	4.0 ± 0.2	4.0 ± 0.2	2.1
NR 4026	3	4.0 ± 0.2	4.0 ± 0.2	2.8
NR 4030	3	4.0 ± 0.2	4.0 ± 0.2	3.0
NR 5012	3	5.0 ± 0.2	5.0 ± 0.2	1.3
NR 5020	3	5.0 ± 0.2	5.0 ± 0.2	2.0
NR 5040	3	5.0 ± 0.2	5.0 ± 0.2	4.2
NR 6012	3	6.0 ± 0.3	6.0 ± 0.3	1.2
NR 6020	3	6.0 ± 0.3	6.0 ± 0.3	2.0
NR 6028	3	6.0 ± 0.3	6.0 ± 0.3	3.0
NR 6045	3	6.0 ± 0.3	6.0 ± 0.3	4.5
NR 6060	3	6.0 ± 0.3	6.0 ± 0.3	6.3
NR 8040	3	8.0 ± 0.3	8.0 ± 0.3	4.2
NR 8050	3	8.0 ± 0.3	8.0 ± 0.3	5.2
NR 8065	3	8.0 ± 0.3	8.0 ± 0.3	6.8

### ELECTRICAL CHARACTERISTICS FOR NR2010

Part No.	Inductance (uH)	Test Frequency	RDC (Ω)	IDC (A)
NR2010-R24 □	0.24	1MHz	0.040	3.70
NR2010-R33 □	0.33	1MHz	0.048	3.00
NR2010-R47 □	0.47	1MHz	0.060	2.30
NR2010-R68 □	0.68	1MHz	0.076	1.95
NR2010-1R0 □	1.00	1MHz	0.114	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	0.65
NR2010-100 □	10	1MHz	1.000	0.60
NR2010-150 □	15	1MHz	1.700	0.50
NR2010-220 □	22	1MHz	2.000	0.32

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### ELECTRICAL CHARACTERISTICS FOR NR2508

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR2508-R47 □	0.47	1MHz	0.140	1.80
NR2508-1R0 □	1.00	1MHz	0.219	1.35
NR2508-1R5 □	1.50	1MHz	0.248	1.10
NR2508-2R2 □	2.20	1MHz	0.290	0.86
NR2508-3R3 □	3.30	1MHz	0.416	0.82
NR2508-4R7 □	4.70	1MHz	0.580	0.68
NR2508-6R8 □	6.80	1MHz	0.818	0.55
NR2508-100 □	10	1MHz	1.232	0.48

### ELECTRICAL CHARACTERISTICS FOR NR2512

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR2512-R47 □	0.47	1MHz	0.028	3.50
NR2512-1R0 □	1.00	1MHz	0.043	2.45
NR2512-1R5 □	1.50	1MHz	0.070	2.07
NR2512-2R2 □	2.20	1MHz	0.088	1.95
NR2512-3R3 □	3.30	1MHz	0.130	1.60
NR2512-4R7 □	4.70	1MHz	0.180	1.40
NR2512-6R8 □	6.80	1MHz	0.320	1.04
NR2512-100 □	10	1MHz	0.350	0.77

### ELECTRICAL CHARACTERISTICS FOR NR3010

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR3010-1R0 □	1.00	1MHz	0.078	1.70
NR3010-1R5 □	1.50	1MHz	0.096	1.40
NR3010-2R2 □	2.20	1MHz	0.114	1.25
NR3010-3R3 □	3.30	1MHz	0.192	0.90
NR3010-4R7 □	4.70	1MHz	0.228	0.85
NR3010-6R8 □	6.80	1MHz	0.360	0.66
NR3010-100 □	10	1MHz	0.540	0.53
NR3010-150 □	15	1MHz	0.888	0.42
NR3010-220 □	22	1MHz	1.176	0.36
NR3010-330 □	33	1MHz	1.860	0.28
NR3010-470 □	47	1MHz	2.400	0.24

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### ELECTRICAL CHARACTERISTICS FOR NR3015

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR3015-1R0 □	1.00	1MHz	0.048	2.10
NR3015-1R5 □	1.50	1MHz	0.066	1.80
NR3015-2R2 □	2.20	1MHz	0.072	1.48
NR3015-3R3 □	3.30	1MHz	0.112	1.21
NR3015-4R7 □	4.70	1MHz	0.136	1.00
NR3015-6R8 □	6.80	1MHz	0.211	0.90
NR3015-100 □	10	1MHz	0.276	0.75
NR3015-150 □	15	1MHz	0.422	0.58
NR3015-220 □	22	1MHz	0.622	0.47
NR3015-330 □	33	1MHz	0.959	0.39
NR3015-470 □	47	1MHz	1.406	0.32
NR3015-101 □	100	1MHz	2.920	0.23

### ELECTRICAL CHARACTERISTICS FOR NR4010

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR4010-1R0 □	1.0	100KHz	0.067	2.00
NR4010-2R2 □	2.2	100KHz	0.102	1.20
NR4010-3R3 □	3.3	100KHz	0.120	1.10
NR4010-4R7 □	4.7	100KHz	0.168	0.95
NR4010-6R8 □	6.8	100KHz	0.240	0.80
NR4010-100 □	10	100KHz	0.360	0.62
NR4010-150 □	15	100KHz	0.516	0.54
NR4010-220 □	22	100KHz	0.684	0.45

### ELECTRICAL CHARACTERISTICS FOR NR4018

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR4018-1R0 □	1.0	100KHz	0.033	4.80
NR4018-2R2 □	2.2	100KHz	0.059	2.70
NR4018-3R3 □	3.3	100KHz	0.091	2.45
NR4018-4R7 □	4.7	100KHz	0.117	1.70
NR4018-6R8 □	6.8	100KHz	0.143	1.45
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

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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	0.185	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	1.040	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

### ELECTRICAL CHARACTERISTICS FOR NR4026

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR4026-1R0 □	1.0	100KHz	0.033	3.30
NR4026-1R2 □	1.2	100KHz	0.039	3.10
NR4026-1R5 □	1.5	100KHz	0.048	2.40
NR4026-2R2 □	2.2	100KHz	0.052	2.10
NR4026-3R3 □	3.3	100KHz	0.065	1.80
NR4026-4R7 □	4.7	100KHz	0.072	1.60
NR4026-6R8 □	6.8	100KHz	0.085	1.30
NR4026-100 □	10	100KHz	0.170	1.00
NR4026-150 □	15	100KHz	0.250	0.90
NR4026-220 □	22	100KHz	0.330	0.60
NR4026-330 □	33	100KHz	0.480	0.50

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### ELECTRICAL CHARACTERISTICS FOR NR4030

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR4030-1R0 □	1.0	100KHz	0.018	5.26
NR4030-1R5 □	1.5	100KHz	0.026	4.84
NR4030-2R2 □	2.2	100KHz	0.039	4.50
NR4030-3R3 □	3.3	100KHz	0.052	3.30
NR4030-4R7 □	4.7	100KHz	0.078	2.90
NR4030-5R6 □	5.6	100KHz	0.085	2.60
NR4030-6R8 □	6.8	100KHz	0.100	2.40
NR4030-8R2 □	8.2	100KHz	0.117	2.10
NR4030-100 □	10	100KHz	0.130	1.95
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
NR4030-221 □	220	100KHz	3.250	0.40
NR4030-331 □	330	100KHz	5.200	0.30
NR4030-471 □	470	100KHz	9.360	0.25
NR4030-681 □	680	100KHz	9.854	0.19

### ELECTRICAL CHARACTERISTICS FOR NR5012

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR5012-1R0 □	1.0	100KHz	0.068	4.40
NR5012-1R5 □	1.5	100KHz	0.086	3.70
NR5012-2R2 □	2.2	100KHz	0.108	3.10
NR5012-3R3 □	3.3	100KHz	0.151	2.40
NR5012-4R7 □	4.7	100KHz	0.197	2.20
NR5012-6R8 □	6.8	100KHz	0.294	1.70
NR5012-100 □	10	100KHz	0.413	1.40
NR5012-150 □	15	100KHz	0.523	1.20
NR5012-220 □	22	100KHz	0.858	0.88

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### ELECTRICAL CHARACTERISTICS FOR NR5020

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR5020-1R0 □	1.0	100KHz	0.026	4.10
NR5020-1R5 □	1.5	100KHz	0.034	4.00
NR5020-2R2 □	2.2	100KHz	0.042	3.80
NR5020-2R7 □	2.7	100KHz	0.049	2.90
NR5020-3R3 □	3.3	100KHz	0.056	2.55
NR5020-3R9 □	3.9	100KHz	0.056	2.30
NR5020-4R7 □	4.7	100KHz	0.074	2.50
NR5020-5R6 □	5.6	100KHz	0.083	2.30
NR5020-6R8 □	6.8	100KHz	0.108	2.05
NR5020-8R2 □	8.2	100KHz	0.127	1.85
NR5020-100 □	10	100KHz	0.143	1.70
NR5020-120 □	12	100KHz	0.182	1.50
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	0.507	0.92
NR5020-470 □	47	100KHz	0.680	0.85
NR5020-560 □	56	100KHz	0.819	0.77
NR5020-680 □	68	100KHz	0.962	0.65
NR5020-820 □	82	100KHz	1.158	0.59
NR5020-101 □	100	100KHz	1.430	0.53
NR5020-121 □	120	100KHz	1.755	0.42
NR5020-681 □	680	100KHz	10.40	0.22
NR5020-821 □	820	100KHz	11.70	0.20

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### ELECTRICAL CHARACTERISTICS FOR NR5040

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR5040-1R0 □	1.0	100KHz	0.016	7.35
NR5040-1R5 □	1.5	100KHz	0.020	6.30
NR5040-1R8 □	1.8	100KHz	0.021	5.50
NR5040-2R2 □	2.2	100KHz	0.025	4.90
NR5040-3R3 □	3.3	100KHz	0.031	3.95
NR5040-4R7 □	4.7	100KHz	0.039	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
NR5040-680 □	68	100KHz	0.520	0.90
NR5040-101 □	100	100KHz	0.728	0.75
NR5040-151 □	150	100KHz	0.975	0.65
NR5040-102 □	1000	100KHz	7.800	0.21

### ELECTRICAL CHARACTERISTICS FOR NR6012

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR6012-1R0 □	1.0	100KHz	0.060	3.00
NR6012-1R5 □	1.5	100KHz	0.080	2.60
NR6012-2R2 □	2.2	100KHz	0.108	2.10
NR6012-3R3 □	3.3	100KHz	0.126	1.80
NR6012-4R7 □	4.7	100KHz	0.150	1.60
NR6012-6R8 □	6.8	100KHz	0.198	1.30
NR6012-100 □	10	100KHz	0.240	1.00
NR6012-150 □	15	100KHz	0.354	0.80
NR6012-220 □	22	100KHz	0.558	0.76
NR6012-330 □	33	100KHz	0.696	0.59
NR6012-470 □	47	100KHz	1.158	0.52
NR6012-680 □	68	100KHz	1.392	0.44
NR6012-101 □	100	100KHz	2.004	0.35

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### ELECTRICAL CHARACTERISTICS FOR NR6020

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR6020-1R5 □	1.5	100KHz	0.031	4.30
NR6020-2R2 □	2.2	100KHz	0.041	3.20
NR6020-3R3 □	3.3	100KHz	0.048	2.80
NR6020-4R7 □	4.7	100KHz	0.070	2.40
NR6020-6R8 □	6.8	100KHz	0.102	2.00
NR6020-100 □	10	100KHz	0.150	1.90
NR6020-220 □	22	100KHz	0.348	1.25

### ELECTRICAL CHARACTERISTICS FOR NR6028

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR6028-0R9 □	0.9	100KHz	0.017	6.70
NR6028-1R5 □	1.5	100KHz	0.021	5.10
NR6028-2R2 □	2.2	100KHz	0.026	4.20
NR6028-4R7 □	4.7	100KHz	0.040	2.70
NR6028-6R8 □	6.8	100KHz	0.056	2.50
NR6028-100 □	10	100KHz	0.085	1.90
NR6028-150 □	15	100KHz	0.124	1.60
NR6028-220 □	22	100KHz	0.176	1.30
NR6028-330 □	33	100KHz	0.286	1.10
NR6028-470 □	47	100KHz	0.390	1.00
NR6028-680 □	68	100KHz	0.546	0.80
NR6028-101 □	100	100KHz	0.780	0.65

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### ELECTRICAL CHARACTERISTICS FOR NR6045

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR6045-1R0 □	1.0	100KHz	0.013	12.20
NR6045-1R5 □	1.5	100KHz	0.020	9.60
NR6045-1R8 □	1.8	100KHz	0.021	8.64
NR6045-2R2 □	2.2	100KHz	0.025	7.92
NR6045-3R3 □	3.3	100KHz	0.032	6.75
NR6045-4R7 □	4.7	100KHz	0.041	6.03
NR6045-5R6 □	5.6	100KHz	0.052	4.95
NR6045-6R8 □	6.8	100KHz	0.058	4.77
NR6045-8R2 □	8.2	100KHz	0.069	4.10
NR6045-100 □	10	100KHz	0.070	4.05
NR6045-150 □	15	100KHz	0.104	3.06
NR6045-220 □	22	100KHz	0.116	2.05
NR6045-330 □	33	100KHz	0.179	1.65
NR6045-470 □	47	100KHz	0.288	1.40
NR6045-680 □	68	100KHz	0.429	1.25
NR6045-101 □	100	100KHz	0.650	1.17
NR6045-121 □	120	100KHz	0.730	0.85
NR6045-151 □	150	100KHz	0.854	0.70
NR6045-221 □	220	100KHz	1.690	0.60
NR6045-331 □	330	100KHz	2.340	0.50
NR6045-471 □	470	100KHz	2.847	0.40
NR6045-681 □	680	100KHz	3.550	0.33
NR6045-102 □	1000	100KHz	6.218	0.30
NR6045-152 □	1500	100KHz	9.025	0.20

### ELECTRICAL CHARACTERISTICS FOR NR6060

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR6060-1R0 □	1.0	100KHz	0.010	10.00
NR6060-2R2 □	2.2	100KHz	0.020	8.80
NR6060-3R3 □	3.3	100KHz	0.025	7.50
NR6060-4R7 □	4.7	100KHz	0.033	6.80
NR6060-6R8 □	6.8	100KHz	0.040	5.90
NR6060-100 □	10	100KHz	0.072	4.60
NR6060-150 □	15	100KHz	0.098	3.80
NR6060-220 □	22	100KHz	0.111	3.40
NR6060-330 □	33	100KHz	0.156	2.80

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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR8040

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR8040-1R0 □	1.0	100KHz	0.010	9.85
NR8040-2R2 □	2.2	100KHz	0.016	7.10
NR8040-3R3 □	3.3	100KHz	0.022	6.50
NR8040-4R7 □	4.7	100KHz	0.025	5.90
NR8040-5R6 □	5.6	100KHz	0.030	6.00
NR8040-6R8 □	6.8	100KHz	0.031	4.55
NR8040-8R2 □	8.2	100KHz	0.034	4.20
NR8040-100 □	10	100KHz	0.038	3.60
NR8040-150 □	15	100KHz	0.061	2.95
NR8040-220 □	22	100KHz	0.090	2.40
NR8040-330 □	33	100KHz	0.126	2.05
NR8040-470 □	47	100KHz	0.177	1.75
NR8040-680 □	68	100KHz	0.255	1.45
NR8040-820 □	82	100KHz	0.293	1.30
NR8040-101 □	100	100KHz	0.442	1.15
NR8040-151 □	150	100KHz	0.533	1.10
NR8040-221 □	220	100KHz	0.779	0.85
NR8040-331 □	330	100KHz	1.156	0.68
NR8040-471 □	470	100KHz	1.950	0.60
NR8040-681 □	680	100KHz	2.652	0.50
NR8040-102 □	1000	100KHz	3.640	0.40

### ELECTRICAL CHARACTERISTICS FOR NR8050

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR8050-4R7 □	4.7	100KHz	0.039	9.50
NR8050-220 □	22	100KHz	0.120	4.00
NR8050-680 □	68	100KHz	0.255	1.55
NR8050-820 □	82	100KHz	0.305	1.40
NR8050-151 □	150	100KHz	0.585	1.20
NR8050-102 □	1000	100KHz	5.000	0.42

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## SHIELDED SMD POWER INDUCTORS / NR TYPE

### ELECTRICAL CHARACTERISTICS FOR NR8065

Part No.	Inductance (uH)	Test Frequency	RDC ( $\Omega$ )	IDC (A)
NR8065-4R7 □	4.7	100KHz	0.022	8.50
NR8065-5R6 □	5.6	100KHz	0.026	8.00
NR8065-6R8 □	6.8	100KHz	0.029	7.50
NR8065-8R2 □	8.2	100KHz	0.031	7.00
NR8065-100 □	10	100KHz	0.040	6.60
NR8065-150 □	15	100KHz	0.062	4.80
NR8065-220 □	22	100KHz	0.065	4.30
NR8065-330 □	33	100KHz	0.118	3.50
NR8065-470 □	47	100KHz	0.156	3.00
NR8065-680 □	68	100KHz	0.230	2.70
NR8065-820 □	82	100KHz	0.300	2.50
NR8065-101 □	100	100KHz	0.390	2.30
NR8065-151 □	150	100KHz	0.575	1.80
NR8065-221 □	220	100KHz	0.988	1.40
NR8065-331 □	330	100KHz	1.320	1.10
NR8065-471 □	470	100KHz	1.690	0.90
NR8065-821 □	820	100KHz	2.000	0.65
NR8065-102 □	1000	100KHz	2.820	0.60
NR8065-152 □	1500	100KHz	4.380	0.54
NR8065-302 □	3000	100KHz	10.800	0.30
NR8065-472 □	4700	100KHz	14.580	0.25
NR8065-682 □	6800	100KHz	22.440	0.24

# SHIELDED SMD POWER INDUCTORS / SCI TYPE

## FEATURES

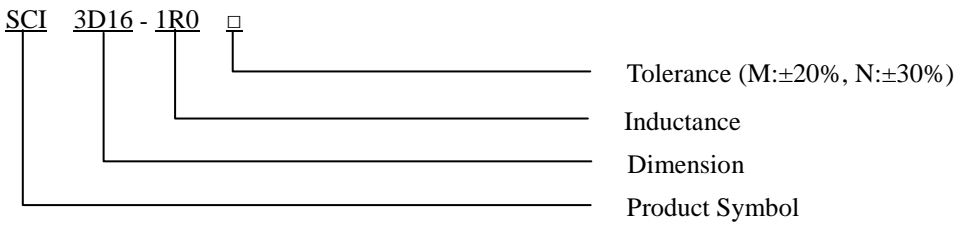
- ◆ Low DC resistance
- ◆ Suitable for large currents
- ◆ Available in magnetically shielded
- ◆ Small size with the electrode attached to it



## APPLICATIONS

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

## ORDERING CODE



## SHAPES

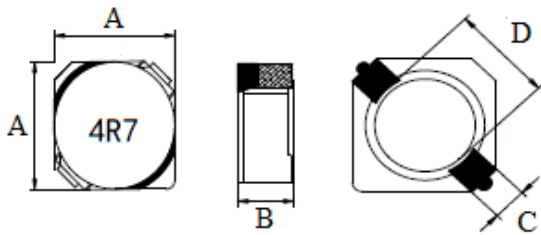


Fig 1.

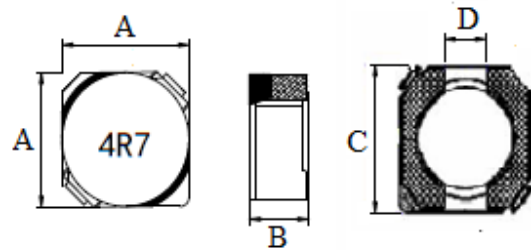


Fig 2.

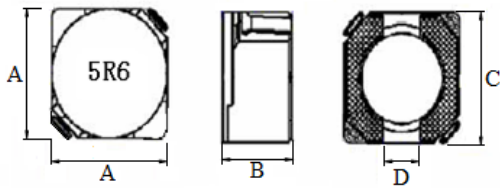


Fig 3.

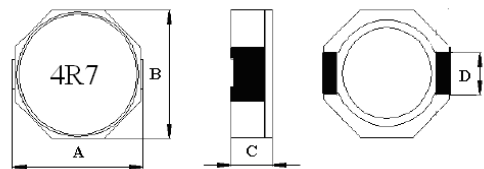


Fig 4.

## 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

## 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

## 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

## 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

## 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

## 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

## 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

## SHIELDED SMD POWER INDUCTORS / SDI TYPE

### FEATURES

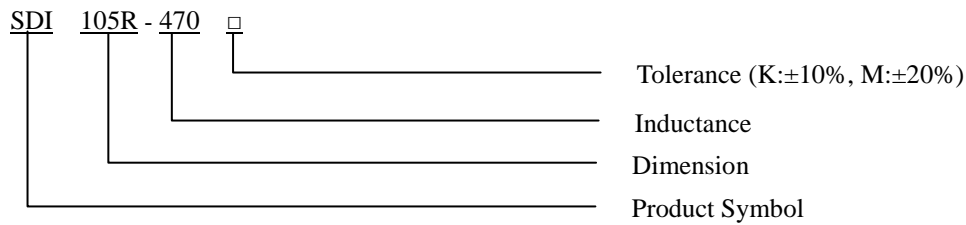
- ◆ Ideal inductors for DC-DC conversion
- ◆ With magnetic shield against radiation
- ◆ High power and high saturation inductors
- ◆ Directly connected electrode on ferrite core



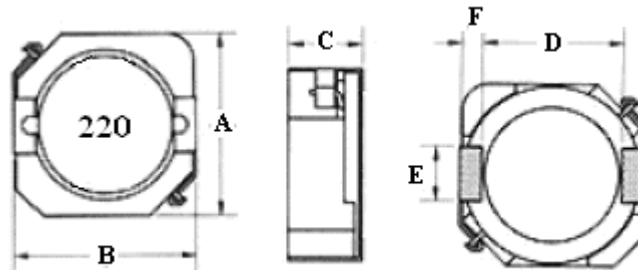
### APPLICATIONS

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

### 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



## 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

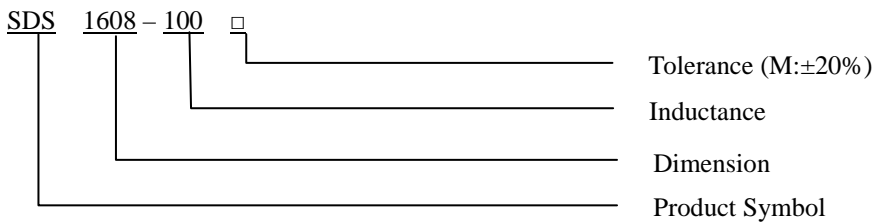
- ◆ With magnetic shield against radiation
- ◆ SDS 1608 used ceramic base with gold-plating
- ◆ Other used LCP plastic base



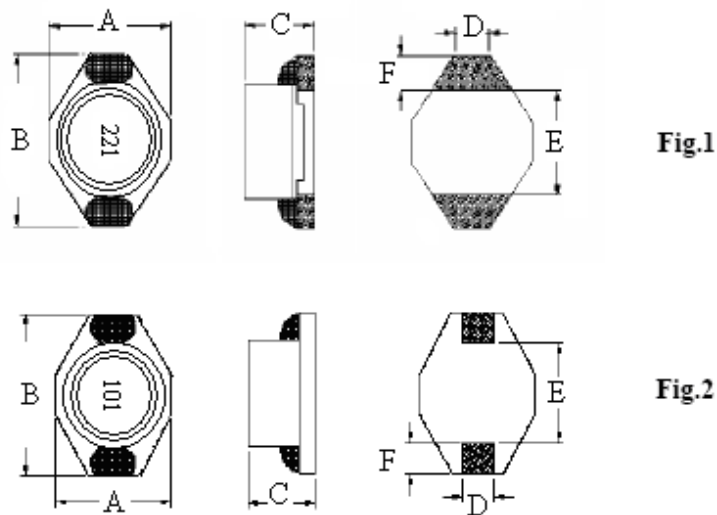
### APPLICATIONS

- ◆ Portable telephones.
- ◆ Personal computers.
- ◆ DC/DC converters, etc.
- ◆ Other various electronic appliances.

### ORDERING CODE



### SHAPES



### 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

# SHIELDED SMD POWER INDUCTORS / SPI TYPE

## FEATURES

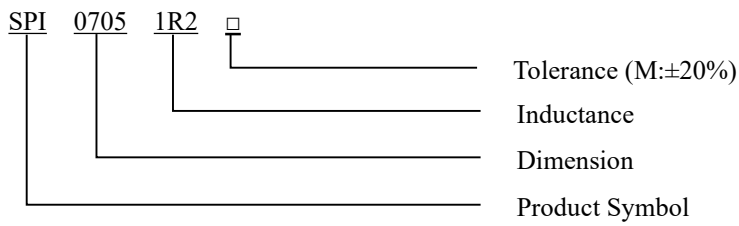
- ◆ With magnetic shield against radiation
- ◆ With magnetic shield against radiation
- ◆ Compact, low profile with low RDC and large current



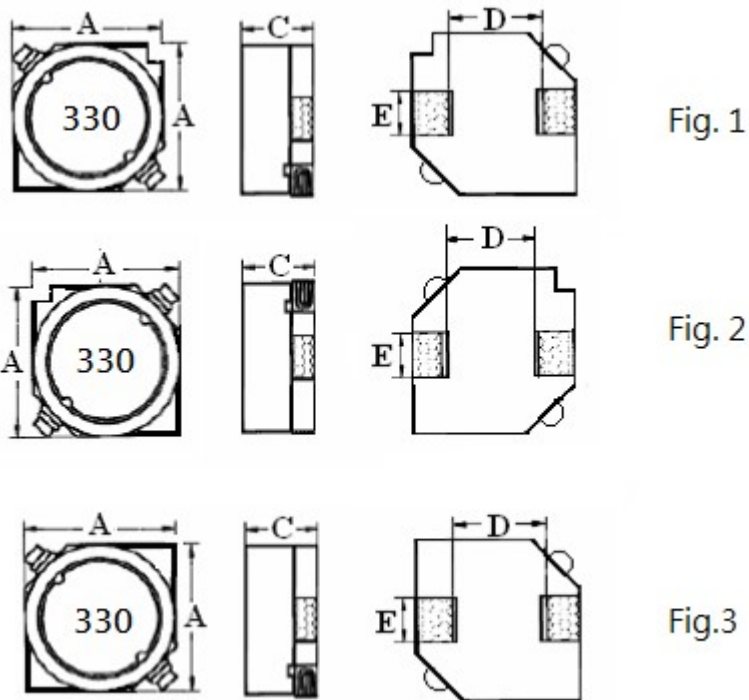
## APPLICATIONS

- ◆ Portable telephones.
- ◆ Personal computers.
- ◆ DC/DC converters, etc.
- ◆ Other various electronic appliances.

## ORDERING CODE



## SHAPES



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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 (uH)	RDC (Ω)	IDC (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 ( $\mu$ H)	RDC ( $\Omega$ )	IDC (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 ( $\mu$ H)	RDC ( $\Omega$ )	IDC (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 ( $\mu$ H)	RDC ( $\Omega$ )	IDC (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 ( $\mu$ H)	RDC ( $\Omega$ )	IDC (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 ( $\mu$ H)	RDC ( $\Omega$ )	IDC (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

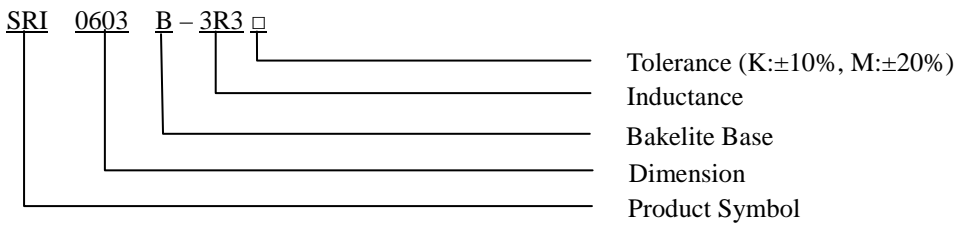
- ◆ Excellent solder ability and high heat resistance for flow soldering.
- ◆ For large current circuits due to its low DC resistance.
- ◆ Excellent in terminal strength due to its high performance ferrite core material and solder ability.



## APPLICATIONS

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

## ORDERING CODE



## SHAPES

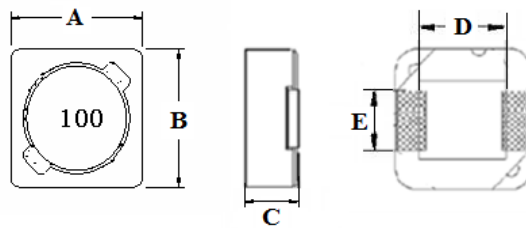


Fig.1

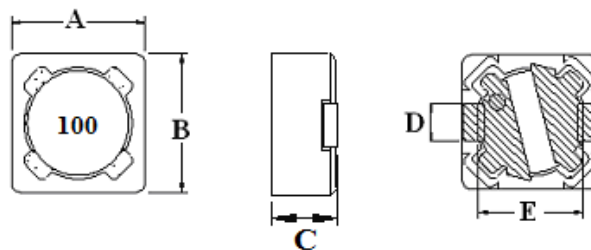


Fig.2

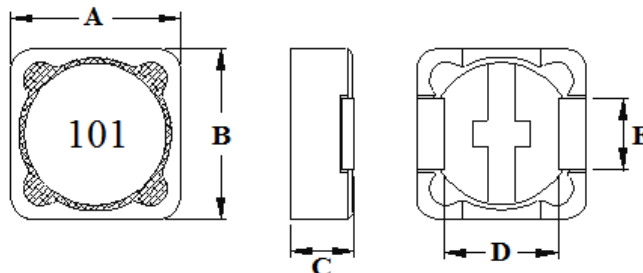


Fig.3

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## 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 (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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## 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

## 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



## 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

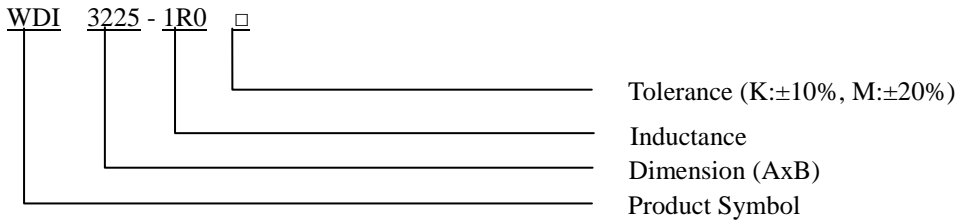
- ◆ The series is a range of miniature, surface-mount.
- ◆ I-core power inductors.
- ◆ Suitable for and reflow soldering.
- ◆ They are designed for use in power applications with restricted PCB space and height.



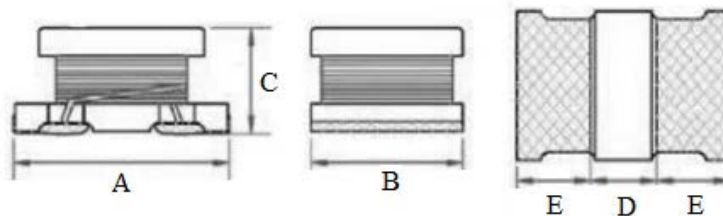
### APPLICATIONS

- ◆ Personal computers.
- ◆ Pagers, Cordless phone.
- ◆ High Freq. Communication Products.
- ◆ Disk Drives and computer peripherals.
- DC power supply circuits.

### ORDERING CODE



### SHAPES



### DIMENSIONS UNIT: mm (inch)

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

## SMD POWER INDUCTORS / WDI TYPE

### ELECTRICAL CHARACTERISTICS FOR WDI3216

Part No.	Inductance ( $\mu$ H)	Test Frequency (MHz)	RDC ( $\Omega$ ) Max	IDC (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 ( $\mu$ H)	Test Frequency (MHz)	RDC ( $\Omega$ ) Max	IDC (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 ( $\mu$ H)	Test Frequency (MHz)	RDC ( $\Omega$ ) Max	IDC (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 ( $\mu$ H)	Test Frequency (MHz)	RDC ( $\Omega$ ) Max	IDC (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 (uH)	Test Frequency (MHz)	RDC (Ω) Max	IDC (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 (uH)	Test Frequency (MHz)	RDC (Ω)Max	IDC (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.



# UNSHIELDED SMD POWER INDUCTORS / DS TYPE

## FEATURES

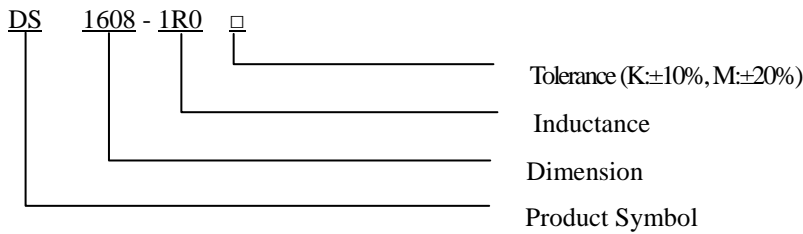
- ◆ Designed for the smallest possible size and high performance
- ◆ They are with high energy storage and very low resistance making them the ideal inductors for DC-DC conversion in the following applications
- ◆ DS 1608 used ceramic base with gold-plating
- ◆ Others used LCP plastic base



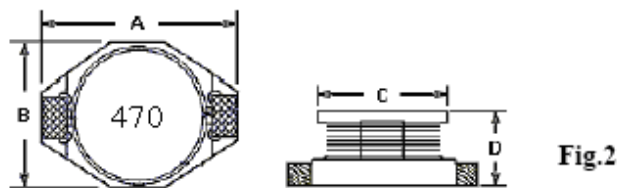
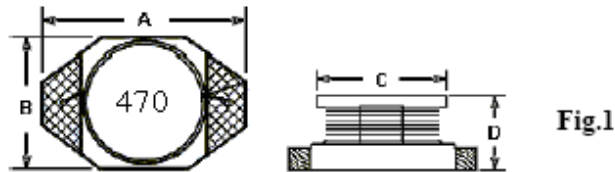
## APPLICATIONS

- ◆ Portable telephones.
- ◆ Personal computers.
- ◆ DC/DC converters, etc.
- ◆ Other various electronic appliances.

## 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

## 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

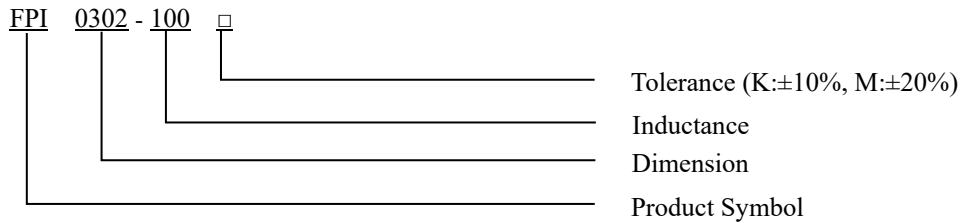
- ◆ Silver Plated Type
- ◆ High power and high saturation
- ◆ Ideal inductors for DC/DC conversion



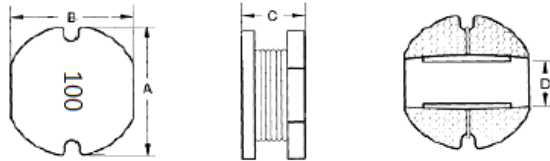
## APPLICATIONS

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

## 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



## UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

### ELECTRICAL CHARACTERISTICS FOR FPI0703

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



## 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

### 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	6.50
FPI1008-150 □	15	0.044	5.60
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
FPI1008-221 □	220	0.450	1.50
FPI1008-331 □	330	0.650	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
FPI1008-442 □	4400	8.300	0.32



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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

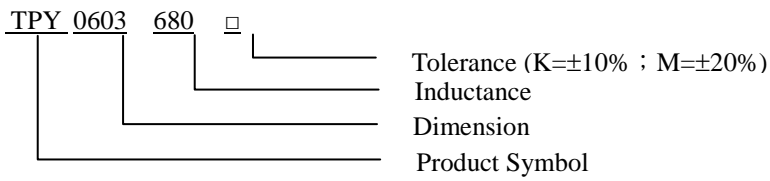
- ◆ Surface mount inductor with high current rating.
- ◆ Low resistance to keep power loss minimum.



## APPLICATIONS

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

## ORDERING CODE



## SHAPES

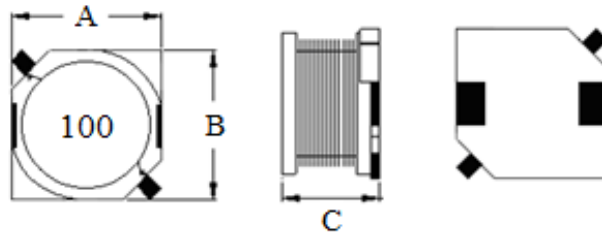


Fig 1.

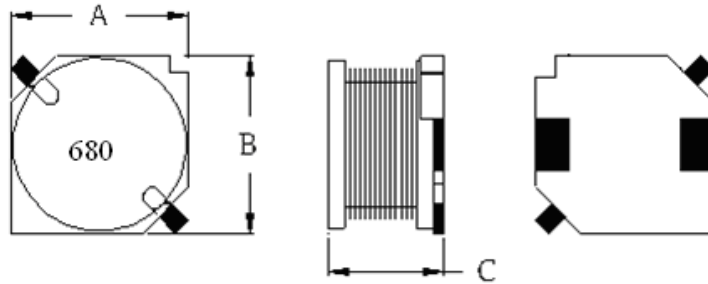


Fig 2.

## 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 ( $\mu$ H)	RDC ( $\Omega$ ) MAX	IDC (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 ( $\mu$ H)	RDC ( $\Omega$ ) MAX	IDC (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 ( $\mu$ H)	RDC ( $\Omega$ ) MAX	IDC (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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