SCDS Series — SMD Shielded Power Inductor

Features

- Provides magnetic shielding against radiation
- Provides magnetic shielding against radiation
- Available on tape and reel for auto surface mounting
- For Inductance values outside those listed in the datasheet contact factory
- Find Environmental information and Packaging specs in related supplimental documents

Applications

- Power supply for VTRs
- Notebook PCs
- DC/DC converters
- OA equipment
- Portable communication devices

Inductance and Current ranges

• SCDS3D18	4.5 ~ 47 µH	1.55 ~ 0.21 A
• SCDS4D18	1.0 ~ 180 µH	1.72 ~ 0.12 A
• SCDS4D28	1.2 ~ 180 µH	2.56 ~ 0.22 A
• SCDS5D18	4.1 ~ 100 µH	1.95 ~ 0.36 A
• SCDS5D28	2.6 ~ 100 µH	2.60 ~ 0.42 A
• SCDS6D28	3.0 ~ 100 µH	3.00 ~ 0.54 A
• SCDS6D38	3.3 ~ 100 µH	3.50 ~ 0.65 A

How to Order

SCDS	3D18	N	T	101
SEI Type	Dimensions	Tolerance	Packaging	Inductance

Type	Description
SCDS	SMD Power Inductor

Code	Description
3D18	3.8mm x 1.8mm
4D18	4.7mm x 2.0mm
4D28	4.7mm x 3.0mm
5D18	5.7mm x 2.0mm
5D28	5.7mm x 3.0mm
6D28	6.7mm x 3.0mm
6D38	6.7mm x 4.0mm

Code	Tolerance
N	±30%

Code	Inductance
1R1	1.1 µH
470	47 µH
101	100 µH

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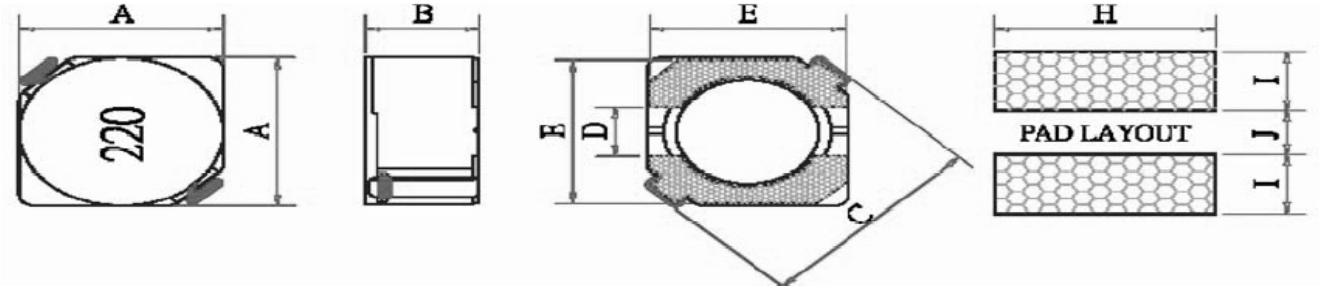

Mechanical Specifications									
Type /Code	**A**	**B max.**	**C max.**	**D**	**E**	**H**	**I**	**J**	**Units**
SCDS3D18	0.150 ± 0.012 3.8 ± 0.3	0.071 1.8	0.165 4.2	0.045 1.15	0.142 3.6	0.161 4.1	0.063	0.047 1.2	inches mm
SCDS4D18	0.185 ± 0.012 4.7 ± 0.3	0.079 2.0	0.272 6.9	0.059 1.5	0.177 4.5	0.209 5.3	0.075 1.9	0.059 1.5	inches mm
SCDS4D28	0.185 ± 0.012 4.7 ± 0.3	0.118 3.0	0.272 6.9	0.059 1.5	0.177 4.5	0.209 5.3	0.075 1.9	0.059 1.5	inches mm
SCDS5D18	0.224 ± 0.012 5.7 ± 0.3	0.079 2.0	0.323 8.2	0.079 2.0	0.217 5.5	0.248 6.3	0.085 2.15	0.079 2.0	inches mm
SCDS5D28	0.224 ± 0.012 5.7 ± 0.3	0.118 3.0	0.323 8.2	0.079 2.0	0.217 5.5	0.248 6.3	0.085 2.15	0.079 2.0	inches mm
SCDS6D28	0.264 ± 0.012 6.7 ± 0.3	0.118 3.0	0.374 9.5	0.079 2.0	0.256 6.5	0.287 7.3	0.104 2.65	0.079 2.0	inches mm
SCDS6D38	0.264 ± 0.012 6.7 ± 0.3	0.157 4.0	0.374 9.5	0.079 2.0	0.256 6.5	0.287 7.3	0.104 2.65	0.079 2.0	inches mm

Electrical Characteristics - SCDS3D18					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
SCDS3D18NT1R5	1.5	100KHz	30	0.052	1.55
SCDS3D18NT2R2	2.2	100KHz	30	0.072	1.20
SCDS3D18NT3R3	3.3	100KHz	30	0.085	1.10
SCDS3D18NT4R7	4.7	100KHz	30	0.105	0.90
SCDS3D18NT6R8	6.8	100KHz	30	0.170	0.73
SCDS3D18NT100	10	100KHz	30	0.210	0.55
SCDS3D18NT150	15	100KHz	30	0.295	0.45
SCDS3D18NT220	22	100KHz	30	0.430	0.40
SCDS3D18NT330	33	100KHz	30	0.675	0.32
SCDS3D18NT470	47	100KHz	30	0.900	0.21

Electrical Characteristics - SCDS4D18					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
SCDS4D18NT1R0	1.0	100KHz	30	0.045	1.72
SCDS4D18NT2R2	2.2	100KHz	30	0.075	1.32
SCDS4D18NT2R7	2.7	100KHz	30	0.105	1.28
SCDS4D18NT3R3	3.3	100KHz	30	0.110	1.04
SCDS4D18NT3R9	3.9	100KHz	30	0.155	0.88
SCDS4D18NT4R7	4.7	100KHz	30	0.162	0.84
SCDS4D18NT5R6	5.6	100KHz	30	0.170	0.80
SCDS4D18NT6R8	6.8	100KHz	30	0.200	0.76
SCDS4D18NT8R2	8.2	100KHz	30	0.245	0.68
SCDS4D18NT100	10	100KHz	30	0.200	0.61
SCDS4D18NT120	12	100KHz	30	0.210	0.56
SCDS4D18NT150	15	100KHz	30	0.240	0.50
SCDS4D18NT180	18	100KHz	30	0.338	0.48
SCDS4D18NT220	22	100KHz	30	0.397	0.41
SCDS4D18NT270	27	100KHz	30	0.441	0.35
SCDS4D18NT330	33	100KHz	30	0.694	0.32
SCDS4D18NT390	39	100KHz	30	0.709	0.30
SCDS4D18NT470	47	100KHz	30	1.000	0.20
SCDS4D18NT560	56	100KHz	30	1.100	0.28
SCDS4D18NT680	68	100KHz	30	1.350	0.25
SCDS4D18NT820	82	100KHz	30	1.650	0.22
SCDS4D18NT101	100	100KHz	30	2.200	0.20
SCDS4D18NT121	120	100KHz	30	2.450	0.17
SCDS4D18NT151	150	100KHz	30	3.000	0.15
SCDS4D18NT181	180	100KHz	30	3.000	0.12

Electrical Characteristics - SCDS4D28					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
SCDS4D28NT1R2	1.2	100KHz	30	0.023	2.56
SCDS4D28NT1R8	1.8	100KHz	30	0.027	2.20
SCDS4D28NT2R2	2.2	100KHz	30	0.031	2.04
SCDS4D28NT2R7	2.7	100KHz	30	0.043	1.60
SCDS4D28NT3R3	3.3	100KHz	30	0.049	1.57
SCDS4D28NT3R9	3.9	100KHz	30	0.065	1.44
SCDS4D28NT4R7	4.7	100KHz	30	0.072	1.32
SCDS4D28NT5R6	5.6	100KHz	30	0.101	1.17
SCDS4D28NT6R8	6.8	100KHz	30	0.109	1.12
SCDS4D28NT8R2	8.2	100KHz	30	0.117	1.04
SCDS4D28NT100	10	100KHz	30	0.128	1.00
SCDS4D28NT120	12	100KHz	30	0.131	0.84
SCDS4D28NT150	15	100KHz	30	0.149	0.76
SCDS4D28NT180	18	100KHz	30	0.166	0.72
SCDS4D28NT220	22	100KHz	30	0.235	0.70
SCDS4D28NT270	27	100KHz	30	0.261	0.58
SCDS4D28NT330	33	100KHz	30	0.378	0.56
SCDS4D28NT390	39	100KHz	30	0.383	0.50
SCDS4D28NT470	47	100KHz	30	0.587	0.48
SCDS4D28NT560	56	100KHz	30	0.624	0.41
SCDS4D28NT680	68	100KHz	30	0.699	0.35
SCDS4D28NT820	82	100KHz	30	0.914	0.32
SCDS4D28NT101	100	100KHz	30	1.020	0.29
SCDS4D28NT121	120	100KHz	30	1.270	0.27
SCDS4D28NT151	150	100KHz	30	1.350	0.24
SCDS4D28NT181	180	100KHz	30	1.540	0.22

Electrical Characteristics - SCDS5D18					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
SCDS5D18NT4R1	4.1	10KHz	30	0.057	1.95
SCDS5D18NT5R4	5.4	10KHz	30	0.076	1.60
SCDS5D18NT6R2	6.2	10KHz	30	0.096	1.40
SCDS5D18NT8R9	8.9	10KHz	30	0.116	1.25
SCDS5D18NT100	10	10KHz	30	0.124	1.20
SCDS5D18NT120	12	10KHz	30	0.153	1.10
SCDS5D18NT150	15	10KHz	30	0.196	0.97
SCDS5D18NT180	18	10KHz	30	0.210	0.85
SCDS5D18NT220	22	10KHz	30	0.290	0.80
SCDS5D18NT270	27	10KHz	30	0.330	0.75
SCDS5D18NT330	33	10KHz	30	0.386	0.65
SCDS5D18NT390	39	10KHz	30	0.520	0.57
SCDS5D18NT470	47	10KHz	30	0.595	0.54
SCDS5D18NT560	56	10KHz	30	0.665	0.50
SCDS5D18NT680	68	10KHz	30	0.840	0.43
SCDS5D18NT820	82	10KHz	30	0.987	0.41
SCDS5D18NT101	100	10KHz	30	1.200	0.36

Electrical Characteristics - SCDS5D28					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
SCDS5D28NT2R6	2.6	10KHz	30	0.018	2.60
SCDS5D28NT3R0	3.0	10KHz	30	0.024	2.40
SCDS5D28NT4R2	4.2	10KHz	30	0.031	2.20
SCDS5D28NT5R3	5.3	10KHz	30	0.038	1.90
SCDS5D28NT6R2	6.2	10KHz	30	0.045	1.80
SCDS5D28NT8R2	8.2	10KHz	30	0.053	1.60
SCDS5D28NT100	10	10KHz	30	0.065	1.30
SCDS5D28NT120	12	10KHz	30	0.076	1.20
SCDS5D28NT150	15	10KHz	30	0.103	1.10
SCDS5D28NT180	18	10KHz	30	0.110	1.00
SCDS5D28NT220	22	10KHz	30	0.122	0.90
SCDS5D28NT270	27	10KHz	30	0.175	0.85
SCDS5D28NT330	33	10KHz	30	0.189	0.75
SCDS5D28NT390	39	10KHz	30	0.212	0.70
SCDS5D28NT470	47	10KHz	30	0.260	0.62
SCDS5D28NT560	56	10KHz	30	0.305	0.58
SCDS5D28NT680	68	10KHz	30	0.355	0.52
SCDS5D28NT820	82	10KHz	30	0.463	0.46
SCDS5D28NT101	100	10KHz	30	0.520	0.42

Electrical Characteristics - SCDS6D28					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
SCDS6D28NT3R0	3.0	10KHz	30	0.024	3.00
SCDS6D28NT3R9	3.9	10KHz	30	0.027	2.60
SCDS6D28NT5R0	5.0	10KHz	30	0.031	2.40
SCDS6D28NT6R0	6.0	10KHz	30	0.035	2.25
SCDS6D28NT7R3	7.3	10KHz	30	0.054	2.10
SCDS6D28NT8R6	8.6	10KHz	30	0.058	1.85
SCDS6D28NT100	10	10KHz	30	0.065	1.70
SCDS6D28NT120	12	10KHz	30	0.070	1.55
SCDS6D28NT150	15	10KHz	30	0.084	1.40
SCDS6D28NT180	18	10KHz	30	0.095	1.32
SCDS6D28NT220	22	10KHz	30	0.128	1.20
SCDS6D28NT270	27	10KHz	30	0.142	1.05
SCDS6D28NT330	33	10KHz	30	0.165	0.97
SCDS6D28NT390	39	10KHz	30	0.210	0.86
SCDS6D28NT470	47	10KHz	30	0.238	0.80
SCDS6D28NT560	56	10KHz	30	0.277	0.73
SCDS6D28NT680	68	10KHz	30	0.304	0.65
SCDS6D28NT820	82	10KHz	30	0.390	0.60
SCDS6D28NT101	100	10KHz	30	0.535	0.54

Electrical Characteristics - SCDS6D38					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
SCDS6D38NT3R3	3.3	10KHz	30	0.020	3.50
SCDS6D38NT5R0	5.0	10KHz	30	0.024	2.90
SCDS6D38NT6R2	6.2	10KHz	30	0.027	2.50
SCDS6D38NT7R4	7.4	10KHz	30	0.031	2.30
SCDS6D38NT8R7	8.7	10KHz	30	0.034	2.20
SCDS6D38NT100	10	10KHz	30	0.038	2.00
SCDS6D38NT120	12	10KHz	30	0.053	1.70
SCDS6D38NT150	15	10KHz	30	0.057	1.60
SCDS6D38NT180	18	10KHz	30	0.092	1.50
SCDS6D38NT220	22	10KHz	30	0.096	1.30
SCDS6D38NT270	27	10KHz	30	0.109	1.20
SCDS6D38NT330	33	10KHz	30	0.124	1.10
SCDS6D38NT390	39	10KHz	30	0.138	1.00
SCDS6D38NT470	47	10KHz	30	0.155	0.95
SCDS6D38NT560	56	10KHz	30	0.202	0.85
SCDS6D38NT680	68	10KHz	30	0.234	0.75
SCDS6D38NT820	82	10KHz	30	0.324	0.70
SCDS6D38NT101	100	10KHz	30	0.358	0.65