

Data Sheet

Customer:

Product: Shielded SMD Power Inductor – SCDS Series

Sizes.: 3D18/4D18/4D28/5D18/5D28/6D28/6D38

Issued Date: 11-Apr-25

Edition: REV.C3



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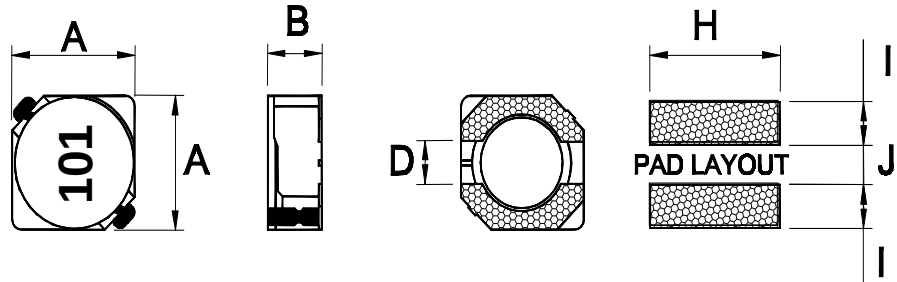
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Shielded SMD Power Inductor



Features

- Directly connected electrode on ferrite core
- Available in magnetically shielded
- Low DC resistance
- Suitable for large current
- Available on tape and reel for auto surface mounting

Applications

- Power Supply For VTRs
- OA Equipment
- Notebook PCs
- Portable Communication Equipment
- DC/DC Converters, etc.

Characteristics

- Rated DC Current: The current when the inductance becomes 35% lower than its initial value or the current when the temperature of coil increases to $\Delta 40^{\circ}\text{C}$. The smaller one is defined as Rated DC Current. ($T_a=25^{\circ}\text{C}$)
- Operating temperature range: $-40\sim 125^{\circ}\text{C}$
- Storage temperature range: $-40\sim 85^{\circ}\text{C}$;
Humidity: 25%~80%
- Shelf life: 1 years Max

Dimensions

Unit: mm

Type	A	B max.	D	H	I	J
SCDS3D18	3.8 ± 0.2	1.8	1.0	4.6	1.65	1.0
SCDS4D18	4.7 ± 0.3	2.0	1.5	5.3	1.90	1.5
SCDS4D28	4.7 ± 0.3	3.0	1.5	5.3	1.90	1.5
SCDS5D18	6.0 max	2.0	2.0	6.3	2.15	2.0
SCDS5D28	6.0 max	3.0	2.0	6.3	2.15	2.0
SCDS6D28	6.7 ± 0.3	3.0	2.0	7.3	2.65	2.0
SCDS6D38	6.7 ± 0.3	4.0	2.0	7.3	2.65	2.0

Inductance and rated current ranges

- SCDS3D18 1.0~220 μH 2.40~0.13A
- SCDS4D18 1.0~220 μH 1.72~0.13A
- SCDS4D28 1.0~220 μH 2.65~0.21A
- SCDS5D18 2.2~470 μH 2.30~0.18A
- SCDS5D28 2.2~680 μH 2.60~0.18A
- SCDS6D28 1.0~330 μH 6.15~0.35A
- SCDS6D38 1.0~1000 μH 5.60~0.18A
- Test equipment:
L: HP4284A Precision LCR meter
DCR: Milli-ohm meter
- Electrical specifications at 25°C

Product Identification

SCDS	5D28	N	T	101
Product Type	Dimensions (AxAxB)	Inductor Tolerance	Packaging Style	Inductance
	3D18: 3.8x3.8x2.0 4D18: 4.7x4.7x2.0 4D28: 4.7x4.7x3.0 5D18: 5.7x5.7x2.0 5D28: 5.7x5.7x3.0 6D28: 6.7x6.7x3.0 6D38: 6.7x6.7x4.0	M: $\pm 20\%$ N: $\pm 30\%$	T: Tape and Reel	1R0: 1.0 μH 470: 47 μH 101: 100 μH

■Electrical Characteristics

SCDS3D18 Type(□:Tolerance):

Part No	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
SCDS3D18□T1R0	1.0	N	100KHz, 0.1V	0.050	2.40
SCDS3D18□T1R5	1.5	N	100KHz, 0.1V	0.056	1.55
SCDS3D18□T2R2	2.2	M, N	100KHz, 0.1V	0.072	1.20
SCDS3D18□T3R3	3.3	M, N	100KHz, 0.1V	0.085	1.10
SCDS3D18□T4R7	4.7	M, N	100KHz, 0.1V	0.105	0.90
SCDS3D18□T4R7-3	4.7	M	100KHz, 0.25V	0.146	1.10
SCDS3D18□T6R8	6.8	M, N	100KHz, 0.1V	0.170	0.73
SCDS3D18□T100	10	M, N	100KHz, 0.1V	0.210	0.55
SCDS3D18□T120	12	M, N	100KHz, 0.1V	0.275	0.50
SCDS3D18□T150	15	M, N	100KHz, 0.1V	0.295	0.45
SCDS3D18□T220	22	M, N	100KHz, 0.1V	0.430	0.40
SCDS3D18□T270	27	M, N	100KHz, 0.1V	0.557	0.38
SCDS3D18□T330	33	M, N	100KHz, 0.1V	0.675	0.32
SCDS3D18□T470	47	M, N	100KHz, 0.1V	0.964	0.27
SCDS3D18□T560	56	M, N	100KHz, 0.1V	1.330	0.22
SCDS3D18□T101	100	M, N	100KHz, 0.1V	2.600	0.16
SCDS3D18□T221	220	M, N	100KHz, 0.1V	4.770	0.13

Note: SCDS3D18□T4R7-3 The DC current at which the inductance becomes 30% lower than its initial value.

SCDS4D18 Type(□:Tolerance):

Part No	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
SCDS4D18□T1R0	1.0	N	100KHz, 0.1V	0.045	1.72
SCDS4D18□T1R2	1.2	N	100KHz, 0.1V	0.048	1.65
SCDS4D18□T1R5	1.5	N	100KHz, 0.1V	0.050	1.60
SCDS4D18□T1R8	1.8	N	100KHz, 0.1V	0.058	1.35
SCDS4D18□T2R0-1	2.0	N	100KHz, 0.25V	0.046	1.90
SCDS4D18□T2R2	2.2	M, N	100KHz, 0.1V	0.075	1.32
SCDS4D18□T2R7	2.7	M, N	100KHz, 0.1V	0.105	1.28
SCDS4D18□T3R3	3.3	M, N	100KHz, 0.1V	0.110	1.04
SCDS4D18□T3R3-2	3.3	M	100KHz, 0.25V	0.062	1.50
SCDS4D18□T3R9	3.9	M, N	100KHz, 0.1V	0.155	0.88
SCDS4D18□T4R7	4.7	M, N	100KHz, 0.1V	0.162	0.84
SCDS4D18□T5R6	5.6	N	100KHz, 0.1V	0.170	0.80
SCDS4D18□T6R8	6.8	M, N	100KHz, 0.1V	0.200	0.76
SCDS4D18□T8R2	8.2	N	100KHz, 0.1V	0.245	0.68
SCDS4D18□T100	10	M, N	100KHz, 0.1V	0.200	0.61
SCDS4D18□T120	12	M, N	100KHz, 0.1V	0.210	0.56
SCDS4D18□T150	15	M, N	100KHz, 0.1V	0.240	0.50
SCDS4D18□T180	18	M, N	100KHz, 0.1V	0.338	0.48
SCDS4D18□T220	22	M, N	100KHz, 0.1V	0.397	0.41
SCDS4D18□T270	27	M, N	100KHz, 0.1V	0.441	0.35
SCDS4D18□T330	33	M, N	100KHz, 0.1V	0.694	0.32
SCDS4D18□T390	39	M, N	100KHz, 0.1V	0.709	0.30
SCDS4D18□T470	47	M, N	100KHz, 0.1V	0.922	0.28
SCDS4D18□T470-1	47	M	1KHz, 0.25V	0.73	0.35
SCDS4D18□T560	56	M, N	100KHz, 0.1V	1.080	0.26
SCDS4D18□T680	68	M, N	100KHz, 0.1V	1.300	0.24
SCDS4D18□T680-1	68	M	1KHz, 0.25V	0.935	0.30
SCDS4D18□T820	82	M, N	100KHz, 0.1V	1.560	0.22
SCDS4D18□T101	100	M, N	100KHz, 0.1V	1.730	0.20
SCDS4D18□T121	120	M, N	100KHz, 0.1V	2.390	0.18
SCDS4D18□T151	150	M, N	100KHz, 0.1V	2.670	0.15
SCDS4D18□T181	180	M, N	100KHz, 0.1V	4.000	0.14
SCDS4D18□T221	220	M, N	100KHz, 0.1V	4.300	0.13

Note: SCDS4D18□T2R0-1/ SCDS4D18□T470-1 The DC current at which the inductance becomes 30% lower than its initial value.

■Electrical Characteristics

SCDS4D28 Type(□:Tolerance):

Part No	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
SCDS4D28□T1R0	1.0	N	100KHz, 0.1V	0.020	2.65
SCDS4D28□T1R2	1.2	N	100KHz, 0.1V	0.024	2.56
SCDS4D28□T1R8	1.8	N	100KHz, 0.1V	0.028	2.20
SCDS4D28□T2R2	2.2	M, N	100KHz, 0.1V	0.031	2.04
SCDS4D28□T2R7	2.7	M, N	100KHz, 0.1V	0.043	1.60
SCDS4D28□T3R3	3.3	M, N	100KHz, 0.1V	0.049	1.57
SCDS4D28□T3R3-1	3.3	M	100KHz, 0.25V	0.034	2.36
SCDS4D28□T3R9	3.9	M, N	100KHz, 0.1V	0.065	1.44
SCDS4D28□T4R7	4.7	M, N	100KHz, 0.1V	0.072	1.32
SCDS4D28□T5R6	5.6	M, N	100KHz, 0.1V	0.101	1.17
SCDS4D28□T6R8	6.8	M, N	100KHz, 0.1V	0.109	1.12
SCDS4D28□T6R8-1	6.8	M	100KHz, 0.25V	0.068	1.51
SCDS4D28□T8R2	8.2	M, N	100KHz, 0.1V	0.118	1.04
SCDS4D28□T100	10	M, N	100KHz, 0.1V	0.128	1.00
SCDS4D28□T120	12	M, N	100KHz, 0.1V	0.132	0.84
SCDS4D28□T150	15	M, N	100KHz, 0.1V	0.149	0.76
SCDS4D28□T150-1	15	M	100KHz, 0.25V	0.142	1.05
SCDS4D28□T180	18	M, N	100KHz, 0.1V	0.166	0.72
SCDS4D28□T220	22	M, N	100KHz, 0.1V	0.235	0.70
SCDS4D28□T220-2	22	M	1KHz, 0.25V	0.208	0.86
SCDS4D28□T270	27	M, N	100KHz, 0.1V	0.261	0.58
SCDS4D28□T330	33	M, N	100KHz, 0.1V	0.378	0.56
SCDS4D28□T390	39	M, N	100KHz, 0.1V	0.384	0.50
SCDS4D28□T470	47	M, N	100KHz, 0.1V	0.587	0.48
SCDS4D28□T470-1	47	M	1KHz, 0.25V	0.352	0.62
SCDS4D28□T560	56	M, N	100KHz, 0.1V	0.625	0.41
SCDS4D28□T680	68	M, N	100KHz, 0.1V	0.699	0.35
SCDS4D28□T820	82	M, N	100KHz, 0.1V	0.915	0.32
SCDS4D28□T101	100	M, N	100KHz, 0.1V	1.020	0.29
SCDS4D28□T121	120	M, N	100KHz, 0.1V	1.270	0.27
SCDS4D28□T151	150	M, N	100KHz, 0.1V	1.360	0.24
SCDS4D28□T181	180	M, N	100KHz, 0.1V	1.540	0.22
SCDS4D28□T221	220	M, N	100KHz, 0.1V	2.000	0.21

Note: SCDS4D28□T3R3-1/ SCDS4D28□T6R8-1 The DC current at which the inductance becomes 30% lower than its initial value.
SCDS4D28□T220-2 The DC current at which the inductance becomes 35% lower than its initial value.

■Electrical Characteristics

SCDS5D18 Type(□:Tolerance):

Part No	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
SCDS5D18□T2R2	2.2	M, N	10KHz, 0.1V	0.039	2.30
SCDS5D18□T2R6	2.6	M, N	10KHz, 0.1V	0.046	2.20
SCDS5D18□T3R3	3.3	M, N	10KHz, 0.1V	0.048	2.00
SCDS5D18□T4R1	4.1	M, N	10KHz, 0.1V	0.057	1.80
SCDS5D18□T4R7	4.7	M, N	10KHz, 0.1V	0.068	1.77
SCDS5D18□T5R4	5.4	M, N	10KHz, 0.1V	0.076	1.60
SCDS5D18□T6R2	6.2	M, N	10KHz, 0.1V	0.096	1.50
SCDS5D18□T6R8	6.8	M, N	10KHz, 0.1V	0.110	1.30
SCDS5D18□T8R9	8.9	M, N	10KHz, 0.1V	0.116	1.25
SCDS5D18□T100	10	M, N	10KHz, 0.1V	0.124	1.20
SCDS5D18□T120	12	M, N	10KHz, 0.1V	0.153	1.10
SCDS5D18□T150	15	M, N	10KHz, 0.1V	0.196	0.97
SCDS5D18□T180	18	M, N	10KHz, 0.1V	0.210	0.85
SCDS5D18□T220	22	M, N	10KHz, 0.1V	0.290	0.80
SCDS5D18□T270	27	M, N	10KHz, 0.1V	0.330	0.75
SCDS5D18□T330	33	M, N	10KHz, 0.1V	0.386	0.65
SCDS5D18□T390	39	M, N	10KHz, 0.1V	0.520	0.57
SCDS5D18□T470	47	M, N	10KHz, 0.1V	0.595	0.54
SCDS5D18□T560	56	M, N	10KHz, 0.1V	0.665	0.50
SCDS5D18□T680	68	M, N	10KHz, 0.1V	0.840	0.43
SCDS5D18□T820	82	M, N	10KHz, 0.1V	0.978	0.41
SCDS5D18□T101	100	M, N	10KHz, 0.1V	1.200	0.35
SCDS5D18□T151	150	M, N	10KHz, 0.1V	2.000	0.25
SCDS5D18□T221	220	M, N	10KHz, 0.1V	3.280	0.20
SCDS5D18□T471	470	M, N	10KHz, 0.1V	6.560	0.18

■Electrical Characteristics

SCDS5D28 Type(□:Tolerance):

Part No	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
SCDS5D28□T2R2	2.2	M, N	10KHz, 0.1V	0.018	2.60
SCDS5D28□T2R6	2.6	M, N	10KHz, 0.1V	0.018	2.60
SCDS5D28□T3R0	3.0	M, N	10KHz, 0.1V	0.024	2.40
SCDS5D28□T3R3	3.3	M, N	10KHz, 0.1V	0.035	2.40
SCDS5D28□T4R2	4.2	M, N	10KHz, 0.1V	0.031	2.20
SCDS5D28□T4R7	4.7	M, N	10KHz, 0.1V	0.037	2.00
SCDS5D28□T5R3	5.3	M, N	10KHz, 0.1V	0.038	1.90
SCDS5D28□T5R6	5.6	M, N	10KHz, 0.1V	0.040	1.85
SCDS5D28□T6R2	6.2	M, N	10KHz, 0.1V	0.045	1.80
SCDS5D28□T6R8	6.8	M, N	10KHz, 0.1V	0.050	1.82
SCDS5D28□T8R2	8.2	M, N	10KHz, 0.1V	0.053	1.60
SCDS5D28□T100	10	M, N	10KHz, 0.1V	0.065	1.30
SCDS5D28□T100-2	10	N	100KHz, 0.1V	0.065	1.30
SCDS5D28□T120	12	M, N	10KHz, 0.1V	0.076	1.20
SCDS5D28□T150	15	M, N	10KHz, 0.1V	0.103	1.10
SCDS5D28□T180	18	M, N	10KHz, 0.1V	0.110	1.00
SCDS5D28□T220	22	M, N	10KHz, 0.1V	0.122	0.90
SCDS5D28□T220-1	22	N	100KHz, 0.25V	0.122	0.90
SCDS5D28□T270	27	M, N	10KHz, 0.1V	0.175	0.85
SCDS5D28□T330	33	M, N	10KHz, 0.1V	0.189	0.75
SCDS5D28□T390	39	M, N	10KHz, 0.1V	0.212	0.70
SCDS5D28□T470	47	M, N	10KHz, 0.1V	0.260	0.62
SCDS5D28□T560	56	M, N	10KHz, 0.1V	0.305	0.58
SCDS5D28□T680	68	M, N	10KHz, 0.1V	0.355	0.52
SCDS5D28□T820	82	M, N	10KHz, 0.1V	0.463	0.46
SCDS5D28□T101	100	M, N	10KHz, 0.1V	0.520	0.42
SCDS5D28□T151	150	M, N	10KHz, 0.1V	0.810	0.40
SCDS5D28□T181	180	M, N	10KHz, 0.1V	1.100	0.35
SCDS5D28□T221	220	M, N	10KHz, 0.1V	1.250	0.32
SCDS5D28□T331	330	M, N	10KHz, 0.1V	1.650	0.28
SCDS5D28□T471	470	M, N	10KHz, 0.1V	3.560	0.22
SCDS5D28□T561	560	M, N	10KHz, 0.1V	4.230	0.20
SCDS5D28□T681	680	M, N	10KHz, 0.1V	4.500	0.18

■Electrical Characteristics

SCDS6D28 Type(□:Tolerance):

Part No	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
SCDS6D28□T1R0	1.0	N	10KHz, 0.1V	0.012	6.15
SCDS6D28□T2R2	2.2	M, N	10KHz, 0.1V	0.018	4.00
SCDS6D28□T3R0	3.0	M, N	10KHz, 0.1V	0.024	3.00
SCDS6D28□T3R3	3.3	M, N	10KHz, 0.1V	0.026	2.80
SCDS6D28□T3R9	3.9	M, N	10KHz, 0.1V	0.027	2.60
SCDS6D28□T4R7	4.7	M, N	10KHz, 0.1V	0.029	2.50
SCDS6D28□T5R0	5.0	M, N	10KHz, 0.1V	0.031	2.40
SCDS6D28□T5R3	5.3	M, N	10KHz, 0.1V	0.033	2.30
SCDS6D28□T6R0	6.0	M, N	10KHz, 0.1V	0.035	2.25
SCDS6D28□T6R8	6.8	M, N	10KHz, 0.1V	0.052	2.20
SCDS6D28□T7R3	7.3	M, N	10KHz, 0.1V	0.054	2.10
SCDS6D28□T8R6	8.6	M, N	10KHz, 0.1V	0.058	1.85
SCDS6D28□T100	10	M, N	10KHz, 0.1V	0.065	1.70
SCDS6D28□T120	12	M, N	10KHz, 0.1V	0.070	1.55
SCDS6D28□T150	15	M, N	10KHz, 0.1V	0.084	1.40
SCDS6D28□T180	18	M, N	10KHz, 0.1V	0.095	1.32
SCDS6D28□T220	22	M, N	10KHz, 0.1V	0.128	1.20
SCDS6D28□T270	27	M, N	10KHz, 0.1V	0.142	1.05
SCDS6D28□T330	33	M, N	10KHz, 0.1V	0.165	0.97
SCDS6D28□T390	39	M, N	10KHz, 0.1V	0.210	0.86
SCDS6D28□T470	47	M, N	10KHz, 0.1V	0.238	0.80
SCDS6D28□T560	56	M, N	10KHz, 0.1V	0.277	0.73
SCDS6D28□T680	68	M, N	10KHz, 0.1V	0.304	0.65
SCDS6D28□T820	82	M, N	10KHz, 0.1V	0.390	0.60
SCDS6D28□T101	100	M, N	10KHz, 0.1V	0.535	0.54
SCDS6D28□T151	150	M, N	10KHz, 0.1V	0.640	0.40
SCDS6D28□T221	220	M, N	10KHz, 0.1V	1.350	0.35
SCDS6D28□T331	330	M, N	10KHz, 0.1V	2.000	0.35

Shielded SMD Power Inductor

Electrical Characteristics

SCDS6D38 Type(□:Tolerance):

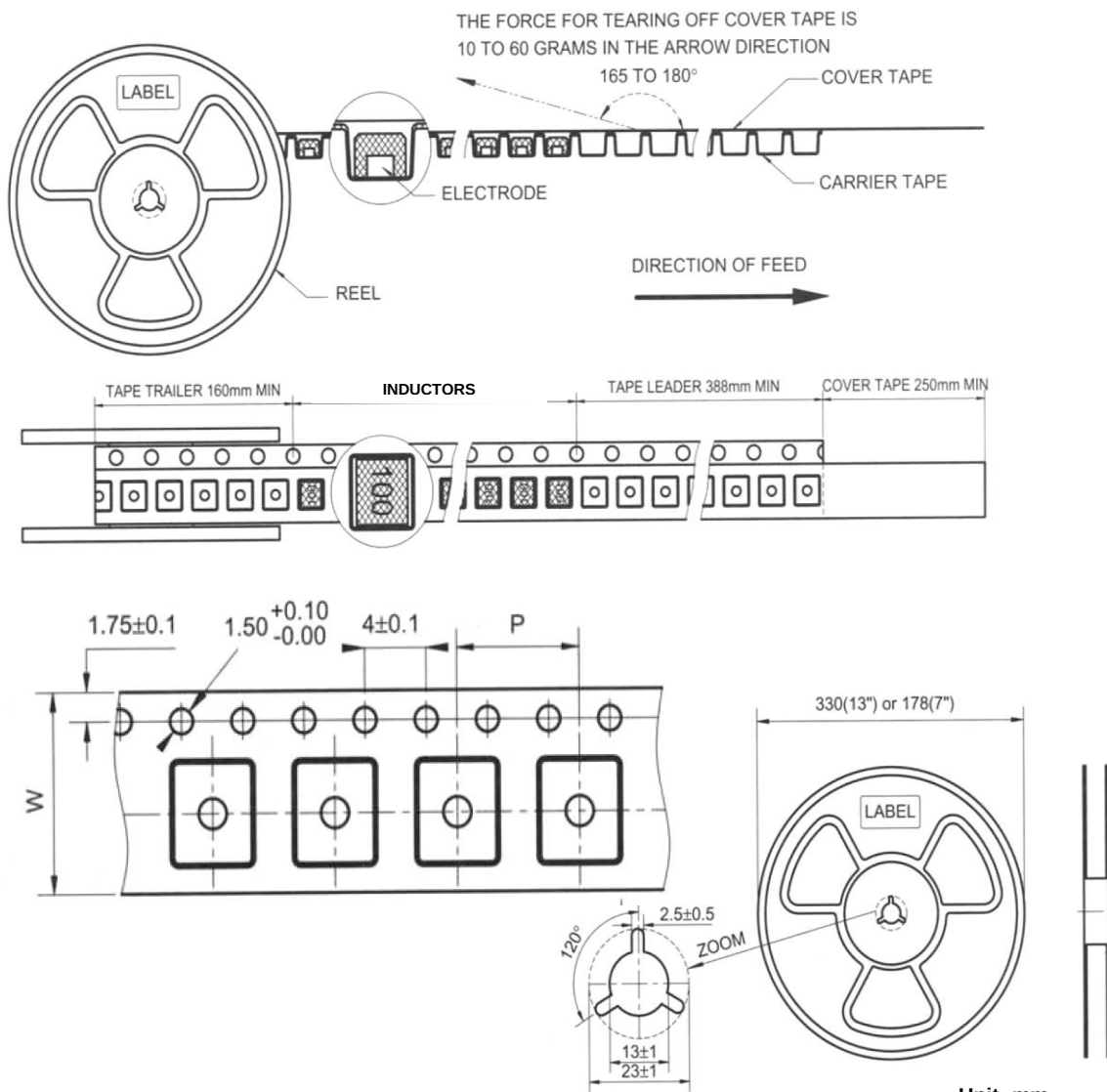
Part No	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
SCDS6D38□T1R0	1.0	N	10KHz, 0.1V	0.016	5.60
SCDS6D38□T 2R2	2.2	N	10KHz, 0.1V	0.019	4.40
SCDS6D38□T 3R3	3.3	M, N	10KHz, 0.1V	0.020	3.50
SCDS6D38□T4R7	4.7	M, N	10KHz, 0.1V	0.024	2.75
SCDS6D38□T 5R0	5.0	M, N	10KHz, 0.1V	0.024	2.75
SCDS6D38□T6R2	6.2	M, N	10KHz, 0.1V	0.027	2.50
SCDS6D38□T6R8	6.8	M, N	10KHz, 0.1V	0.031	2.30
SCDS6D38□T7R4	7.4	M, N	10KHz, 0.1V	0.031	2.30
SCDS6D38□T8R7	8.7	M, N	10KHz, 0.1V	0.034	2.20
SCDS6D38□T100	10	M, N	10KHz, 0.1V	0.038	2.00
SCDS6D38□T120	12	M, N	10KHz, 0.1V	0.053	1.70
SCDS6D38□T150	15	M, N	10KHz, 0.1V	0.057	1.60
SCDS6D38□T180	18	M, N	10KHz, 0.1V	0.092	1.50
SCDS6D38□T220	22	M, N	10KHz, 0.1V	0.096	1.30
SCDS6D38□T270	27	M, N	10KHz, 0.1V	0.109	1.20
SCDS6D38□T330	33	M, N	10KHz, 0.1V	0.124	1.10
SCDS6D38□T390	39	M, N	10KHz, 0.1V	0.138	1.00
SCDS6D38□T470	47	M, N	10KHz, 0.1V	0.155	0.95
SCDS6D38□T560	56	M, N	10KHz, 0.1V	0.202	0.85
SCDS6D38□T680	68	M, N	10KHz, 0.1V	0.234	0.75
SCDS6D38□T820	82	M, N	10KHz, 0.1V	0.324	0.70
SCDS6D38□T101	100	M, N	10KHz, 0.1V	0.368	0.65
SCDS6D38□T101-2	100	M	1KHz, 0.25V	0.61	0.70
SCDS6D38□T151	150	M, N	10KHz, 0.1V	0.483	0.60
SCDS6D38□T221	220	M, N	10KHz, 0.1V	0.705	0.50
SCDS6D38□T221-1	220	M	1KHz, 0.25V	1.170	0.40
SCDS6D38□T331	330	M, N	10KHz, 0.1V	1.250	0.39
SCDS6D38□T561	560	M, N	10KHz, 0.1V	2.850	0.29
SCDS6D38□T102-1	1000	M	1KHz, 0.25V	6.000	0.18

Note:SCDS6D38□T101-2/ SCDS6D38□T102-1 The DC current at which the inductance becomes 30% lower than its initial value.

SCDS6D38□T221-1 The DC current at which the inductance becomes 35% lower than its initial value.

Shielded SMD Power Inductor

■Tape and Reel specifications

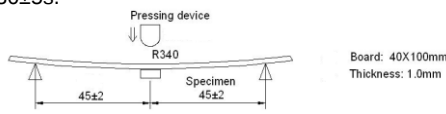
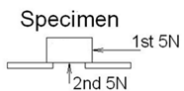


Unit: mm

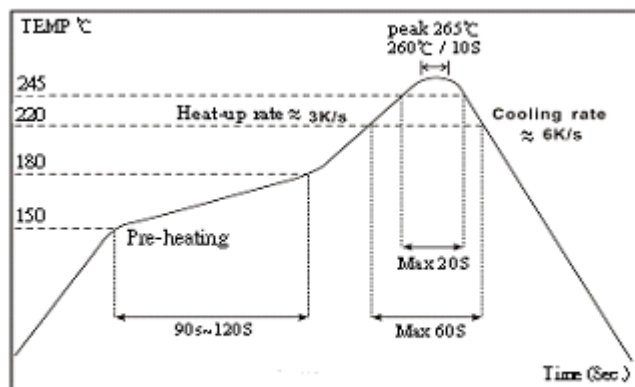
Type	Tape size		Parts Per Reel
	W	P	13"
SCDS3D18	12	8	1000
SCDS4D18	12	8	2000
SCDS4D28	12	8	2000
SCDS5D18	12	8	2000
SCDS5D28	12	8	2000
SCDS6D28	16	12	1500
SCDS6D38	16	12	1000

Shielded SMD Power Inductor

■ SMT Power Inductor Environmental Specifications

Test Items	Specifications	Test Conditions
Bending Test	Change from an initial value L : within±10%	Apply pressure gradually in the direction of the arrow at a rate of about 0.5mm/s until bent depth reaches 3mm and hold for 30±5s. 
Adhesion strength		A static load using a R0.5 pressing tool shall be applied the arrow and to the body of the specimen in the direction of the arrow and shall be hold for 60±5s. Measure after removing Pressure 
Vibration		The specimen shall be subjected to a vibration of 1.5mm amplitude, sweep frequency 10~55Hz (10Hz to 55Hz to 10Hz in a period of one minute) for 1 h in each of 3(X,Y,Z) axes.
Mechanical shock		Peak acceleration: 981 m/S² Duration of pulse: 6ms 3 times in each of 3(X,Y,Z)axes. The specimen must be fixed on test board. Three successive shock shall be applied in the perpendicular direction of each surface of the specimen.
Free fall test		The specimen must be fixed on test board. It must be equipped with instruments of which weight is 500g. Then it shall be fallen freely from 1m height to rigid wood 3 times in each of three axes.
Solder ability	New solder shall cover 90% minimum of the surface immersed.	Terminals shall be immersed for 5 to 10 seconds in flux at room temperature. Dip sample into solder bath containing molten solder at 245±5℃ for 3±0.5 seconds.
Resistance to soldering heat	Change from an initial value L : within±10%	Test method Reflow soldering method Preheat 150~180℃ 90±30s Peak temp 260℃ (230℃ min , 30±10s) 0.8mm The specimen shall be subjected to the reflow process under the above condition 2 times. Test board shall be 0.8mm thick. Base material shall be glass epoxy resin. Measurement The specimen shall be stored at standard atmospheric conditions for 1 h in prior to the measurement.
Dielectric strength	Without damage	100V DC shall be applied for 60s between the terminal and the core.
Insulation resistance	100MΩ or more.	100V DC shall be applied between the terminal and the core
Low temperature	Change from an initial value L : within±10%	After stored at a temperature of -40 ± 3℃ for 500 ±12h. The specimen should be measured, then it should be measured under normal temperature and humidity in 1h~ 2h hours.
Dry heat		The specimen shall be stored at a temperature of 85 ±2℃ for 500± 12h. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h~ 2h.
Dump heat		The specimen shall be stored at a temperature of 60±2℃ with relative humidity of 90 ~ 95% for 500 ± 12h. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h~ 2h.
Temperature cycle		The specimen shall be measured after 500 continuous cycles of temperature change of -40℃ for 30 min and 85℃ for 30 min with the transit period of 2min or less. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h~ 2h.
Temperature drift	Inductance temperature coefficient 2000 ppm/℃ or less	To be measured in the range of -25℃ to 85℃.
Standard atmospheric conditions Unless otherwise specified, the standard range of atmospheric conditions in making measurements and test as follows; Ambient temperature : 5℃ to 35℃, Relative humidity: 45% to 85%, Air pressure: 86kPa to 106kPa If more strict measurement is required, measurement shall be made within following limits; Ambient temperature : 20±2℃, Relative humidity: 65±5%, Air pressure: 86kPa to 106kPa		

The condition of reflow (recommendation)



REVISION HISTORY

<u>REVISION</u>	<u>DATE</u>	<u>CHANGE NOTIFICATION</u>	<u>DESCRIPTION</u>
Version C3	Apr 11,2025		-Add Storage conditions and Shelf life.