

SCD Series

SMT Power Inductors



FEATURES

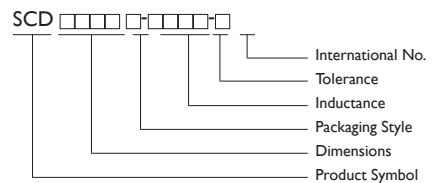
High saturation for surface mounting

Various high power surface mountable type inductors are superior to high saturation. These are also magnetic shielding type for consideration against radiation.

APPLICATION

VRT, OA equipment, LCD television set, notebook computer, portable communications equipment, DC/DC converters, etc.

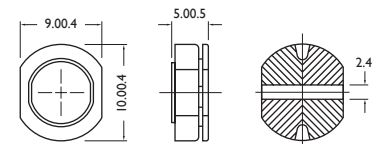
PRODUCT IDENTIFICATION



- Packing : T : Tape and Reel
- Tolerance : K \pm 10%; M \pm 20%
- Note : YAGEO will start to release SCD Series inductor with lead-free terminals that meet SONY SS-00259's criteria for lead-free product in Q2 of 2004, and YAGEO Internal No will be changed to "N" as identification. Ex. SCD0403T-IR0-N

SCDR105B

(10 μ H ~ 470 μ H)



SHAPES AND DIMENSIONS

Dimensions : mm

TYPE	DIMENSION					
SCD0301 (1 μ H ~ 68 μ H)						
	TYPE	A	B	C	D	
	SCD0301	3.5	3.0	1.0	0.6TYP	
SCD0403 (1 μ H ~ 68 μ H)						
Dimensions in mm	2.2H-1500H	1.0H-1000H	1.0H-1000H	1.0H-1000H	1.0H-1000H	
Dim.	SCD 0301	SCD 03015	SCD 03021	SCD 0501	SCD 0502	SCD 0503
A	3.5 \pm 0	3.3 \pm 0.3	3.3 \pm 0.3	5.8 \pm 0.3	5.8 \pm 0.3	5.8 \pm 0.3
B	3.0 \pm 0	3.0 \pm 0.3	3.0 \pm 0.3	5.2 \pm 0.3	5.2 \pm 0.3	5.2 \pm 0.3
C	1.0 \pm 0	1.5 \pm 0.3	2.1 \pm 0.3	2.2Max.	2.5 \pm 0.3	3 \pm 0.3
D	0.6TYP.	1.0TYP.	1.0TYP.	2.0TYP.	2.0TYP.	2.0TYP.
SCD0504 (10 μ H ~ 220 μ H)						
SCD0703 (10 μ H ~ 330 μ H)						
SCD0705 (10 μ H ~ 470 μ H)						
SCD1004 (10 μ H ~ 560 μ H)						
SCD1005 (10 μ H ~ 820 μ H)						



SCD STANDARD SPECIFICATIONS

Electrical Characteristics

Standard Specifications

Stamp	Inductance (μH)	D.C.R(Ω)Max.												
		SCD 0301	SCD 03015	SCD 03021	SCD 0403	SCD 0501	SCD 0502	SCD 0503	SCD 0504	SCD 0703	SCD 0705	SCD 1004	SCD 1005	SCDR 1005B
1R0	1.0			2.080	3.80	4.00	4.50	4.50			3.70			
1R2	1.2							4.20						
1R4	1.4			1.860	3.30	3.60	4.00				3.70			
1R5	1.5							4.10						
1R8	1.8			1.800	2.91	3.00	3.30	3.70			3.70			
2R2	2.2	1.08	0.79	1.390	2.60	2.65	2.94	3.50						
2R7	2.7			1.320	2.43	2.20	2.50	3.20			3.70			
3R3	3.3	0.92		1.250	2.15	2.11	2.35	2.80						
3R9	3.9			1.200	1.98	2.00	2.20	2.60			3.70			
4R7	4.7	0.74	0.65	1.130	1.70	1.80	2.00	2.50			3.50		2.60	
5R6	5.6			0.910	1.60	1.60	1.80	2.40			3.30			
6R8	6.8	0.63		0.850	1.41	1.50	1.70	2.20			3.10		4.33	
8R2	8.2	0.58		0.820	1.26	1.30	1.40	2.00			2.70			
100	10	0.5	0.45	0.740	1.15	1.10	1.20	1.80	1.44	1.44	2.30	2.38	2.60	2.06
120	12	0.46		0.640	1.05	1.05	1.18	1.75	1.40	1.39	2.00	2.13	2.45	1.94
150	15	0.45	0.30	0.600	0.92	1.00	1.15	1.70	1.30	1.24	1.80	1.87	2.27	1.72
180	18			0.540	0.84	0.95	1.10	1.60	1.23	1.12	1.60	1.73	2.15	1.58
220	22	0.35	0.25	0.500	0.76	0.90	1.00	1.50	1.11	1.07	1.50	1.60	1.95	1.42
270	27	0.32		0.430	0.71	0.77	0.86	1.40	0.97	0.94	1.30	1.44	1.76	1.32
330	33		0.20	0.400	0.64	0.68	0.76	1.10	0.88	0.85	1.20	1.26	1.50	1.16
390	39			0.370	0.59	0.67	0.75	1.00	0.80	0.74	1.10	1.20	1.37	1.10
470	47		0.17	0.360	0.54	0.66	0.73	0.90	0.72	0.68	1.10	1.10	1.28	1.00
500	50			0.330		0.61								
560	56			0.310	0.50	0.50	0.55	0.85	0.68	0.64	0.94	1.01	1.17	0.93
680	68		0.13	0.300	0.467	0.47	0.52	0.80	0.61	0.59	0.85	0.91	1.11	0.85
750	75			0.290		0.46								
820	82			0.280		0.45	0.50	0.65	0.58	0.54	0.78	0.85	1.00	0.79
101	100		0.10	0.250	0.40	0.36	0.40	0.60	0.52	0.51	0.72	0.74	0.97	0.72
121	120			0.200		0.32	0.36	0.58	0.48	0.49	0.66	0.69	0.89	0.63
151	150			0.190		0.270	0.30	0.43	0.40	0.40	0.58	0.61	0.78	0.55
181	180			0.170		0.230	0.26	0.41	0.38	0.36	0.51	0.56	0.72	0.50
221	220			0.160		0.220	0.25	0.38	0.35	0.31	0.49	0.53	0.66	0.47
271	270			0.140		0.190	0.21	0.35	0.29	0.29	0.42	0.45	0.57	0.41
301	300			0.135		0.180								
331	330			0.130		0.160	0.18	0.28	0.28	0.28	0.40	0.42	0.52	0.37
391	390			0.120		0.150	0.16	0.26	0.26		0.36	0.38	0.48	0.35
461	460			0.090		0.140								
471	470			0.084		0.135	0.15	0.20	0.12		0.34	0.35	0.42	0.33
561	560			0.080		0.130	0.14	0.19	0.10			0.32	0.33	
681	680			0.080		0.120	0.13	0.18	0.08				0.28	
821	820			0.070		0.063	0.07	0.15	0.05				0.24	
102	1000			0.060		0.045	0.05	0.13	0.03					
122	1200		0.05											
152	1500		0.03											

- SCD0301 22 μH ~27 μH $\pm 20\%$
- SCD03015 2.2~1500 μH $\pm 20\%$
- SCD03021 1.0~1000 μH $\pm 20\%$
- SCD0403 1.0~27 μH $\pm 20\%$ 33~1000 μH $\pm 10\%$
- SCD0501 1.0~27 μH $\pm 20\%$ 33~1000 μH $\pm 10\%$
- SCD0502 1.0~27 μH $\pm 20\%$ 33~1000 μH $\pm 10\%$
- SCD0503 1.0~27 μH $\pm 20\%$ 33~1000 μH $\pm 10\%$
- SCD0504 10~27 μH $\pm 20\%$; 33~47 μH $\pm 15\%$; 56~220 μH $\pm 10\%$
- SCD0703 10~47 μH $\pm 20\%$ 56~330 μH $\pm 10\%$
- SCD0705 1.4~47 μH $\pm 20\%$ 56~470 μH $\pm 10\%$
- SCD1004 10~47 μH $\pm 20\%$ 56~560 μH $\pm 10\%$
- SCD1005 4.7~39 μH $\pm 20\%$ 47~820 μH $\pm 10\%$
- SCDR105B 10~27 μH $\pm 20\%$; 33~82 μH $\pm 15\%$; 100~470 μH $\pm 10\%$

*This indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition or D.C Current when at $\Delta t=4^\circ\text{C}$ whichever is lower.



SCD STANDARD SPECIFICATIONS

Electrical Characteristics

Standard Specifications

Stamp	Inductance (μH)	D.C.R(Ω)Max.												
		SCD 0301	SCD 03015	SCD 03021	SCD 0403	SCD 0501	SCD 0502	SCD 0503	SCD 0504	SCD 0703	SCD 0705	SCD 1004	SCD 1005	SCDR 1005B
IR0	1.0			0.07	0.033	0.034	0.03	0.03					0.02	
IR2	1.2							0.03						
IR4	1.4			0.09	0.038	0.048	0.04					0.02		
IR5	1.5							0.03						
IR8	1.8			0.11	0.042	0.062	0.05	0.03				0.02		
2R2	2.2	0.33	0.10 \pm 30	0.13	0.047	0.064	0.06	0.03						
2R7	2.7			0.14	0.052	0.078	0.07	0.04				0.02		
3R3	3.3	0.52		0.17	0.058	0.097	0.08	0.05						
3R9	3.9			0.19	0.076	0.105	0.09	0.06				0.03		
4R7	4.7	0.62	0.15 \pm 30	0.21	0.094	0.134	0.14	0.07				0.04		0.040
5R6	5.6			0.22	0.101	0.170	0.15	0.08				0.04		
6R8	6.8	0.87		0.25	0.117	0.187	0.16	0.09				0.04		0.037
8R2	8.2	1		0.28	0.132	0.225	0.17	0.10				0.05		
100	10	1.14	0.30 \pm 30	0.32	0.182	0.255	0.18	0.12	0.10	0.08	0.07	0.05	0.060	0.06
120	12	1.44		0.35	0.210	0.292	0.20	0.13	0.12	0.09	0.08	0.06	0.070	0.07
150	15	1.6	0.58 \pm 30	0.40	0.235	0.360	0.22	0.15	0.14	0.10	0.09	0.07	0.080	0.07
180	18			0.48	0.338	0.430	0.25	0.18	0.15	0.11	0.10	0.08	0.090	0.08
220	22	1.9	0.71 \pm 30	0.58	0.378	0.492	0.35	0.22	0.18	0.13	0.11	0.09	0.100	0.08
270	27	2.85		0.65	0.522	0.603	0.45	0.26	0.20	0.15	0.12	0.10	0.110	0.10
330	33		1.10 \pm 30	0.80	0.540	0.796	0.56	0.33	0.23	0.17	0.13	0.12	0.120	0.11
390	39			0.90	0.587	0.897	0.69	0.42	0.32	0.22	0.16	0.15	0.140	0.12
470	47		1.30 \pm 30	1.19	0.844	1.020	0.72	0.50	0.37	0.25	0.18	0.17	0.170	0.14
500	50			1.22		1.040								
560	56			1.27	0.937	1.164	0.84	0.55	0.42	0.28	0.24	0.20	0.190	0.19
680	68		2.20 \pm 30	1.73	1.117	1.220	0.90	0.65	0.46	0.33	0.28	0.22	0.220	0.21
750	75			1.90		1.340								
820	82			1.99		1.570	1.20	0.80	0.60	0.41	0.37	0.25	0.25	0.28
101	100		3.50 \pm 30	2.52	2.000	1.800	1.30	0.90	0.70	0.48	0.43	0.34	0.35	0.34
121	120			2.90		2.000	1.38	1.00	0.93	0.54	0.47	0.40	0.40	0.37
151	150			3.36		2.80	1.81	1.30	1.10	0.75	0.64	0.54	0.47	0.51
181	180			5.10		3.15	1.95	1.50	1.38	1.02	0.71	0.62	0.63	0.57
221	220			5.80		4.40	3.00	2.00	1.57	1.20	0.96	0.72	0.73	0.78
271	270			7.80		6.40	3.20	2.50	1.85	1.31	1.11	0.95	0.97	0.87
301	300			8.10		6.75								
331	330			9.24		7.20	3.82	3.20	2.00	1.50	1.26	1.10	1.15	1.20
391	390			10.14		8.40	4.68	3.50	2.60		1.77	1.24	1.30	1.34
461	460			11.15		12.0								
471	470			11.48		12.4	5.10	4.20	3.00		1.96	1.53	1.48	1.50
561	560			19.49		13.0	8.50	4.50	4.19			1.90	1.90	
681	680			22.00		17.0	10.0	6.50	4.44				2.25	
821	820			23.98		19.5	12.0	7.50	5.12				2.55	
102	1000			28.80		24.0	18.0	8.00	10.00					
122	1200		38 \pm 30											
152	1500		55 \pm 30											

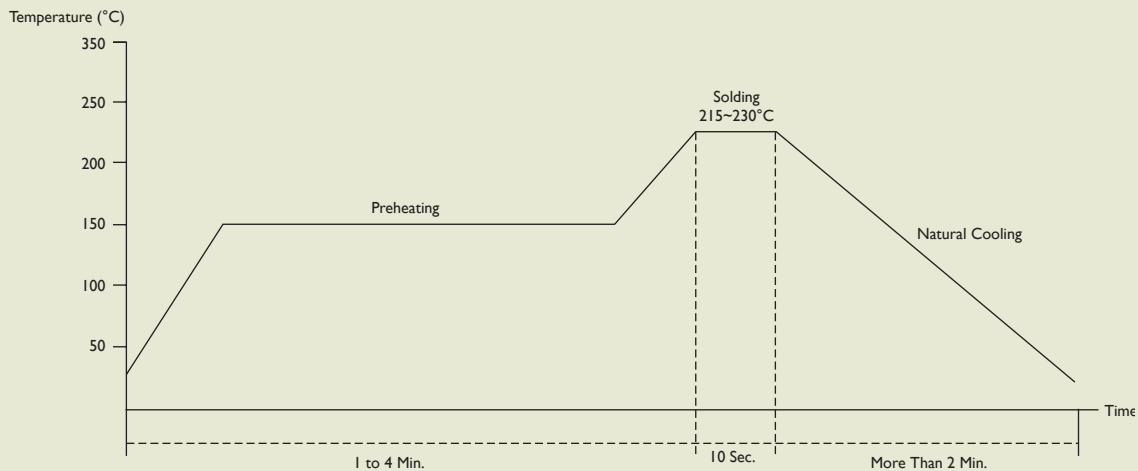
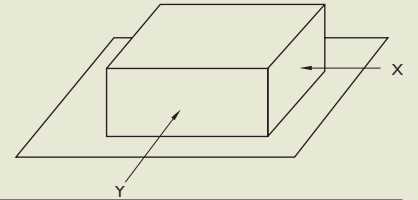
*Test Freq.(L): SCD0301 : 0.1V / 100KHz
 SCD03015 : (1MHz / 1V)
 SCD03021 / 0403 / 0501 / 0502 / 0503 : 1.0~8.2H(7.96MHz / 1V), 10~82H(2.52MHz / 1V), 100~1000(1KHz / 1V).
 SCD0504 / 0705 / 1004 : 1.0~8.2H(7.96MHz / 1V), 10~82H(2.52MHz / 1V), 100~1000H(1KHz / 1V).
 SCD1005 : 1.0~8.2H(7.96MHz / 1V), 10~82H (2.52MHz / 1V), 100~1000H(iKHz / 1V).
 SCDR105B : 1.0~8.2H(2.52MHz / 0.25V), 10~82H(1KHz / 0.25V)

*Test Instrument : L: HP 4192A
 DCR : CHEN HWA 502BC
 Rated D.C Current : HP4294+42 841A or CHI061 +CH301A



GENERAL CHARACTERISTICS

Operating Temperature	-30 ~ +100°C (Contain Heating Coil)			
Appearance Inspection	No External Defects by Visual Inspection			
Terminal Strength	After soldering , between copper plate and terminals of coil , push in tow directions of X,Y with standing as blow conditions. Terminal should not peel off. (Refer to figure at right)			
	10.0N	10 Sec.	SCD0403	SCD0504
	15.0N	10 Sec.	SCD0703	SCD0705
	20.0N	10 Sec.	SCD1004	SCD1005
Heat Endurance of Reflow Soldering	Refer to Below Figure			
Insulating Resistance	Over 100MΩ at 100V D.C. between wire and core.			
Dielectric Strength	No dielectric breakdown at 100V D.C. for 1 minute between wire and core.			
Temperature Characteristics	Inductance coefficient (0 ~ 2,000) X 10 ⁻⁶ /°C (-25 ~ +80°C)			
Humidity Characteristics	Inductance deviation within ±5.0% , after 96 hours in 90 ~ 95% relative humidity at 40 ± 2°C and 1 hour drying under normal condition.			
Vibration Resistance	Inductance deviation within ±5.0% , after vibration for 1 hour.			
	In each of three orientations at sweep vibration (10 ~ 55 ~ 10Hz) with 1.5 mm p-p amplitude.			





ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD0301T-2R2 □ -N	2.2	100KHz,0.1V	0.33	1.08
SCD0301T-3R3 □ -N	3.3	100KHz,0.1V	0.52	0.92
SCD0301T-4R7 □ -N	4.7	100KHz,0.1V	0.62	0.74
SCD0301T-6R8 □ -N	6.8	100KHz,0.1V	0.87	0.63
SCD0301T-8R2 □ -N	8.2	100KHz,0.1V	1	0.58
SCD0301T-100 □ -N	10	100KHz,0.1V	1.14	0.5
SCD0301T-120 □ -N	12	100KHz,0.1V	1.44	0.46
SCD0301T-150 □ -N	15	100KHz,0.1V	1.6	0.43
SCD0301T-220 □ -N	22	100KHz,0.1V	1.9	0.35
SCD0301T-270 □ -N	27	100KHz,0.1V	2.85	0.32

NOTE : □ -tolerance M= \pm 20%

1.Operating temperature range -40°C~85°C

2.Inductance drop = 10% typ. at IDC

"-N"FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)

ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD03015T-2R2 □ -N	2.2	1MHz,1V	0.10 \pm 30%	0.79
SCD03015T-3R3 □ -N	3.3	1MHz,1V	0.11 \pm 30%	0.73
SCD03015T-4R7 □ -N	4.7	1MHz,1V	0.15 \pm 30%	0.65
SCD03015T-100 □ -N	10	1MHz,1V	0.30 \pm 30%	0.45
SCD03015T-150 □ -N	15	1MHz,1V	0.58 \pm 30%	0.3
SCD03015T-220 □ -N	22	1MHz,1V	0.71 \pm 30%	0.25
SCD03015T-330 □ -N	33	1MHz,1V	1.10 \pm 30%	0.2
SCD03015T-390 □ -N	39	1MHz,1V	1.30 \pm 30%	0.17
SCD03015T-470 □ -N	47	1MHz,1V	1.30 \pm 30%	0.17
SCD03015T-680 □ -N	68	1MHz,1V	2.20 \pm 30%	0.13
SCD03015T-101 □ -N	100	1MHz,1V	3.50 \pm 30%	0.1
SCD03015T-122 □ -N	1200	1MHz,1V	38 \pm 30%	0.05
SCD03015T-152 □ -N	1500	1MHz,1V	55 \pm 30%	0.03

NOTE : □ -tolerance K= \pm 10% / \pm 15% / M= \pm 20% / N= \pm 40% -20%

1.Operating temperature range -40°C~85°C

2.this indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\Delta t=40^\circ\text{C}$ Whichever is lower.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD03021T-1R0 <input type="checkbox"/> -N	1	7.96MHz, 1V	0.07	2.08
SCD03021T-1R4 <input type="checkbox"/> -N	1.4	7.96MHz, 1V	0.09	1.86
SCD03021T-1R8 <input type="checkbox"/> -N	1.8	7.96MHz, 1V	0.11	1.8
SCD03021T-2R2 <input type="checkbox"/> -N	2.2	7.96MHz, 1V	0.13	1.39
SCD03021T-2R7 <input type="checkbox"/> -N	2.7	7.96MHz, 1V	0.14	1.32
SCD03021T-3R3 <input type="checkbox"/> -N	3.3	7.96MHz, 1V	0.17	1.25
SCD03021T-3R9 <input type="checkbox"/> -N	3.9	7.96MHz, 1V	0.19	1.2
SCD03021T-4R7 <input type="checkbox"/> -N	4.7	7.96MHz, 1V	0.21	1.13
SCD03021T-5R6 <input type="checkbox"/> -N	5.6	7.96MHz, 1V	0.22	0.91
SCD03021T-6R8 <input type="checkbox"/> -N	6.8	7.96MHz, 1V	0.25	0.85
SCD03021T-7R0 <input type="checkbox"/> -N	7	7.96MHz, 1V	0.28	0.82
SCD03021T-8R2 <input type="checkbox"/> -N	8.2	7.96MHz, 1V	0.28	0.82
SCD03021T-100 <input type="checkbox"/> -N	10	2.52MHz, 1V	0.32	0.74
SCD03021T-120 <input type="checkbox"/> -N	12	2.52MHz, 1V	0.35	0.64
SCD03021T-150 <input type="checkbox"/> -N	15	2.52MHz, 1V	0.4	0.6
SCD03021T-180 <input type="checkbox"/> -N	18	2.52MHz, 1V	0.48	0.54
SCD03021T-220 <input type="checkbox"/> -N	22	2.52MHz, 1V	0.58	0.5
SCD03021T-270 <input type="checkbox"/> -N	27	2.52MHz, 1V	0.65	0.43
SCD03021T-330 <input type="checkbox"/> -N	33	2.52MHz, 1V	0.8	0.4
SCD03021T-390 <input type="checkbox"/> -N	39	2.52MHz, 1V	0.9	0.37
SCD03021T-470 <input type="checkbox"/> -N	47	2.52MHz, 1V	1.19	0.36
SCD03021T-500 <input type="checkbox"/> -N	50	2.52MHz, 1V	1.22	0.33
SCD03021T-560 <input type="checkbox"/> -N	56	2.52MHz, 1V	1.27	0.31
SCD03021T-680 <input type="checkbox"/> -N	68	2.52MHz, 1V	1.73	0.3
SCD03021T-750 <input type="checkbox"/> -N	75	2.52MHz, 1V	1.9	0.29
SCD03021T-820 <input type="checkbox"/> -N	82	2.52MHz, 1V	1.99	0.28
SCD03021T-101 <input type="checkbox"/> -N	100	1KHz, 1V	2.52	0.25
SCD03021T-121 <input type="checkbox"/> -N	120	1KHz, 1V	2.9	0.2
SCD03021T-151 <input type="checkbox"/> -N	150	1KHz, 1V	3.36	0.19
SCD03021T-181 <input type="checkbox"/> -N	180	1KHz, 1V	5.1	0.17
SCD03021T-221 <input type="checkbox"/> -N	220	1KHz, 1V	5.8	0.16
SCD03021T-271 <input type="checkbox"/> -N	270	1KHz, 1V	7.8	0.14
SCD03021T-301 <input type="checkbox"/> -N	300	1KHz, 1V	8.1	0.135
SCD03021T-331 <input type="checkbox"/> -N	330	1KHz, 1V	9.24	0.13
SCD03021T-391 <input type="checkbox"/> -N	390	1KHz, 1V	10.14	0.12
SCD03021T-461 <input type="checkbox"/> -N	460	1KHz, 1V	11.15	0.09
SCD03021T-471 <input type="checkbox"/> -N	470	1KHz, 1V	11.48	0.084
SCD03021T-561 <input type="checkbox"/> -N	560	1KHz, 1V	19.49	0.08
SCD03021T-681 <input type="checkbox"/> -N	680	1KHz, 1V	22	0.08
SCD03021T-821 <input type="checkbox"/> -N	820	1KHz, 1V	23.98	0.07
SCD03021T-102 <input type="checkbox"/> -N	1000	1KHz, 1V	28.8	0.06

NOTE : -tolerance K= \pm 10% / \pm 15% / M= \pm 20% / N= \pm 40% -20%

1. Operating temperature range -40°C~85°C

2. this indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\Delta t=40^\circ\text{C}$ Whichever is lower.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD0403T-1R0 <input type="checkbox"/> -N	1	7.96MHz, 1V	0.033	3.8
SCD0403T-1R4 <input type="checkbox"/> -N	1.4	7.96MHz, 1V	0.038	3.3
SCD0403T-1R8 <input type="checkbox"/> -N	1.8	7.96MHz, 1V	0.042	2.91
SCD0403T-2R2 <input type="checkbox"/> -N	2.2	7.96MHz, 1V	0.047	2.6
SCD0403T-2R7 <input type="checkbox"/> -N	2.7	7.96MHz, 1V	0.052	2.43
SCD0403T-3R3 <input type="checkbox"/> -N	3.3	7.96MHz, 1V	0.058	2.15
SCD0403T-3R9 <input type="checkbox"/> -N	3.9	7.96MHz, 1V	0.076	1.98
SCD0403T-4R7 <input type="checkbox"/> -N	4.7	7.96MHz, 1V	0.094	1.7
SCD0403T-5R6 <input type="checkbox"/> -N	5.6	7.96MHz, 1V	0.101	1.6
SCD0403T-6R8 <input type="checkbox"/> -N	6.8	7.96MHz, 1V	0.117	1.41
SCD0403T-8R2 <input type="checkbox"/> -N	8.2	7.96MHz, 1V	0.132	1.26
SCD0403T-100 <input type="checkbox"/> -N	10	2.52MHz, 1V	0.182	1.15
SCD0403T-120 <input type="checkbox"/> -N	12	2.52MHz, 1V	0.21	1.05
SCD0403T-150 <input type="checkbox"/> -N	15	2.52MHz, 1V	0.235	0.92
SCD0403T-180 <input type="checkbox"/> -N	18	2.52MHz, 1V	0.338	0.84
SCD0403T-220 <input type="checkbox"/> -N	22	2.52MHz, 1V	0.378	0.76
SCD0403T-270 <input type="checkbox"/> -N	27	2.52MHz, 1V	0.522	0.71
SCD0403T-330 <input type="checkbox"/> -N	33	2.52MHz, 1V	0.54	0.64
SCD0403T-390 <input type="checkbox"/> -N	39	2.52MHz, 1V	0.587	0.59
SCD0403T-470 <input type="checkbox"/> -N	47	2.52MHz, 1V	0.844	0.54
SCD0403T-560 <input type="checkbox"/> -N	56	2.52MHz, 1V	0.937	0.5
SCD0403T-680 <input type="checkbox"/> -N	68	2.52MHz, 1V	1.117	0.46
SCD0403T-880 <input type="checkbox"/> -N	88	100KHz, 1V	1.2	0.3
SCD0403T-101 <input type="checkbox"/> -N	100	1KHz, 1V	2	0.4
SCD0403T-121 <input type="checkbox"/> -N	120	1KHz, 1V	1.8	0.38

NOTE : -tolerance K= \pm 10% / \pm 15% / M= \pm 20% / N= \pm 40% -20%

1. Operating temperature range -40°C~85°C

2. this indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\Delta t=40^\circ\text{C}$ Whichever is lower.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD0501T-1R0 <input type="checkbox"/> -N	1	7.96MHz, 1V	0.034	4
SCD0501T-1R4 <input type="checkbox"/> -N	1.4	7.96MHz, 1V	0.048	3.6
SCD0501T-1R8 <input type="checkbox"/> -N	1.8	7.96MHz, 1V	0.062	3
SCD0501T-2R2 <input type="checkbox"/> -N	2.2	7.96MHz, 1V	0.064	2.65
SCD0501T-2R7 <input type="checkbox"/> -N	2.7	7.96MHz, 1V	0.078	2.2
SCD0501T-3R3 <input type="checkbox"/> -N	3.3	7.96MHz, 1V	0.097	2.11
SCD0501T-3R9 <input type="checkbox"/> -N	3.9	7.96MHz, 1V	0.105	2
SCD0501T-4R7 <input type="checkbox"/> -N	4.7	7.96MHz, 1V	0.134	1.8
SCD0501T-5R6 <input type="checkbox"/> -N	5.6	7.96MHz, 1V	0.17	1.6
SCD0501T-6R8 <input type="checkbox"/> -N	6.8	7.96MHz, 1V	0.187	1.5
SCD0501T-8R2 <input type="checkbox"/> -N	8.2	7.96MHz, 1V	0.225	1.3
SCD0501T-100 <input type="checkbox"/> -N	10	2.52MHz, 1V	0.255	1.1
SCD0501T-120 <input type="checkbox"/> -N	12	2.52MHz, 1V	0.292	1.05
SCD0501T-150 <input type="checkbox"/> -N	15	2.52MHz, 1V	0.36	1
SCD0501T-180 <input type="checkbox"/> -N	18	2.52MHz, 1V	0.43	0.95
SCD0501T-220 <input type="checkbox"/> -N	22	2.52MHz, 1V	0.492	0.9
SCD0501T-270 <input type="checkbox"/> -N	27	2.52MHz, 1V	0.603	0.77
SCD0501T-330 <input type="checkbox"/> -N	33	2.52MHz, 1V	0.796	0.68
SCD0501T-390 <input type="checkbox"/> -N	39	2.52MHz, 1V	0.897	0.67
SCD0501T-470 <input type="checkbox"/> -N	47	2.52MHz, 1V	1.02	0.66
SCD0501T-500 <input type="checkbox"/> -N	50	2.52MHz, 1V	1.04	0.61
SCD0501T-560 <input type="checkbox"/> -N	56	2.52MHz, 1V	1.164	0.5
SCD0501T-680 <input type="checkbox"/> -N	68	2.52MHz, 1V	1.22	0.47
SCD0501T-750 <input type="checkbox"/> -N	75	2.52MHz, 1V	1.34	0.46
SCD0501T-820 <input type="checkbox"/> -N	82	2.52MHz, 1V	1.57	0.45
SCD0501T-101 <input type="checkbox"/> -N	100	1KHz, 1V	1.8	0.36
SCD0501T-121 <input type="checkbox"/> -N	120	1KHz, 1V	2	0.32
SCD0501T-151 <input type="checkbox"/> -N	150	1KHz, 1V	2.8	0.27
SCD0501T-181 <input type="checkbox"/> -N	180	1KHz, 1V	3.15	0.23
SCD0501T-221 <input type="checkbox"/> -N	220	1KHz, 1V	4.4	0.22
SCD0501T-271 <input type="checkbox"/> -N	270	1KHz, 1V	6.4	0.19
SCD0501T-301 <input type="checkbox"/> -N	300	1KHz, 1V	6.75	0.18
SCD0501T-331 <input type="checkbox"/> -N	330	1KHz, 1V	7.2	0.16
SCD0501T-391 <input type="checkbox"/> -N	390	1KHz, 1V	8.4	0.15
SCD0501T-461 <input type="checkbox"/> -N	460	1KHz, 1V	12	0.14
SCD0501T-471 <input type="checkbox"/> -N	470	1KHz, 1V	12.4	0.135
SCD0501T-561 <input type="checkbox"/> -N	560	1KHz, 1V	13	0.13
SCD0501T-681 <input type="checkbox"/> -N	680	1KHz, 1V	17	0.12
SCD0501T-821 <input type="checkbox"/> -N	820	1KHz, 1V	19.5	0.063
SCD0501T-102 <input type="checkbox"/> -N	1000	1KHz, 1V	24	0.045

NOTE : -tolerance K= \pm 10% / \pm 15% / M= \pm 20% / N= \pm 40% -20%

1. Operating temperature range -40°C~85°C

2. this indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\Delta t=40^\circ\text{C}$ Whichever is lower.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD0502T-1R0 <input type="checkbox"/> -N	1	7.96MHz, 1V	0.03	4.5
SCD0502T-1R4 <input type="checkbox"/> -N	1.4	7.96MHz, 1V	0.04	4
SCD0502T-1R8 <input type="checkbox"/> -N	1.8	7.96MHz, 1V	0.05	3.3
SCD0502T-2R2 <input type="checkbox"/> -N	2.2	7.96MHz, 1V	0.06	2.94
SCD0502T-2R7 <input type="checkbox"/> -N	2.7	7.96MHz, 1V	0.07	2.5
SCD0502T-3R3 <input type="checkbox"/> -N	3.3	7.96MHz, 1V	0.08	2.35
SCD0502T-3R9 <input type="checkbox"/> -N	3.9	7.96MHz, 1V	0.09	2.2
SCD0502T-4R7 <input type="checkbox"/> -N	4.7	7.96MHz, 1V	0.14	2
SCD0502T-5R6 <input type="checkbox"/> -N	5.6	7.96MHz, 1V	0.15	1.8
SCD0502T-6R8 <input type="checkbox"/> -N	6.8	7.96MHz, 1V	0.16	1.7
SCD0502T-8R2 <input type="checkbox"/> -N	8.2	7.96MHz, 1V	0.17	1.4
SCD0502T-100 <input type="checkbox"/> -N	10	2.52MHz, 1V	0.18	1.2
SCD0502T-120 <input type="checkbox"/> -N	12	2.52MHz, 1V	0.2	1.18
SCD0502T-150 <input type="checkbox"/> -N	15	2.52MHz, 1V	0.22	1.15
SCD0502T-180 <input type="checkbox"/> -N	18	2.52MHz, 1V	0.25	1.1
SCD0502T-220 <input type="checkbox"/> -N	22	2.52MHz, 1V	0.35	1
SCD0502T-270 <input type="checkbox"/> -N	27	2.52MHz, 1V	0.45	0.86
SCD0502T-330 <input type="checkbox"/> -N	33	2.52MHz, 1V	0.56	0.76
SCD0502T-390 <input type="checkbox"/> -N	39	2.52MHz, 1V	0.69	0.75
SCD0502T-470 <input type="checkbox"/> -N	47	2.52MHz, 1V	0.72	0.73
SCD0502T-560 <input type="checkbox"/> -N	56	2.52MHz, 1V	0.84	0.55
SCD0502T-680 <input type="checkbox"/> -N	68	2.52MHz, 1V	0.9	0.52
SCD0502T-820 <input type="checkbox"/> -N	82	2.52MHz, 1V	1.2	0.5
SCD0502T-101 <input type="checkbox"/> -N	100	1KHz, 1V	1.3	0.4
SCD0502T-121 <input type="checkbox"/> -N	120	1KHz, 1V	1.38	0.36
SCD0502T-151 <input type="checkbox"/> -N	150	1KHz, 1V	1.81	0.3
SCD0502T-181 <input type="checkbox"/> -N	180	1KHz, 1V	1.95	0.26
SCD0502T-221 <input type="checkbox"/> -N	220	1KHz, 1V	3	0.25
SCD0502T-271 <input type="checkbox"/> -N	270	1KHz, 1V	3.2	0.21
SCD0502T-331 <input type="checkbox"/> -N	330	1KHz, 1V	3.82	0.18
SCD0502T-391 <input type="checkbox"/> -N	390	1KHz, 1V	4.68	0.16
SCD0502T-471 <input type="checkbox"/> -N	470	1KHz, 1V	5.1	0.15
SCD0502T-561 <input type="checkbox"/> -N	560	1KHz, 1V	8.5	0.14
SCD0502T-681 <input type="checkbox"/> -N	680	1KHz, 1V	10	0.13
SCD0502T-821 <input type="checkbox"/> -N	820	1KHz, 1V	12	0.07
SCD0502T-102 <input type="checkbox"/> -N	1000	1KHz, 1V	18	0.05

NOTE : -tolerance K= \pm 10% / = \pm 15% / M= \pm 20% / N= \pm 40% -20%

1. Operating temperature range -40°C~85°C

2. this indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\Delta t=40^\circ\text{C}$ Whichever is lower.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD0503T-1R0 <input type="checkbox"/> -N	1	7.96MHz, 1V	0.03	4.5
SCD0503T-1R2 <input type="checkbox"/> -N	1.2	7.96MHz, 1V	0.03	4.2
SCD0503T-1R5 <input type="checkbox"/> -N	1.5	7.96MHz, 1V	0.03	4.1
SCD0503T-1R8 <input type="checkbox"/> -N	1.8	7.96MHz, 1V	0.03	3.7
SCD0503T-2R0 <input type="checkbox"/> -N	2	7.96MHz, 1V	0.03	3.6
SCD0503T-2R2 <input type="checkbox"/> -N	2.2	7.96MHz, 1V	0.03	3.5
SCD0503T-2R7 <input type="checkbox"/> -N	2.7	7.96MHz, 1V	0.04	3.2
SCD0503T-3R3 <input type="checkbox"/> -N	3.3	7.96MHz, 1V	0.05	2.8
SCD0503T-3R9 <input type="checkbox"/> -N	3.9	7.96MHz, 1V	0.06	2.6
SCD0503T-4R7 <input type="checkbox"/> -N	4.7	7.96MHz, 1V	0.07	2.5
SCD0503T-5R6 <input type="checkbox"/> -N	5.6	7.96MHz, 1V	0.08	2.4
SCD0503T-6R8 <input type="checkbox"/> -N	6.8	7.96MHz, 1V	0.09	2.2
SCD0503T-8R2 <input type="checkbox"/> -N	8.2	7.96MHz, 1V	0.1	2
SCD0503T-100 <input type="checkbox"/> -N	10	2.52MHz, 1V	0.12	1.8
SCD0503T-120 <input type="checkbox"/> -N	12	2.52MHz, 1V	0.13	1.75
SCD0503T-150 <input type="checkbox"/> -N	15	2.52MHz, 1V	0.15	1.7
SCD0503T-180 <input type="checkbox"/> -N	18	2.52MHz, 1V	0.18	1.6
SCD0503T-220 <input type="checkbox"/> -N	22	2.52MHz, 1V	0.22	1.5
SCD0503T-270 <input type="checkbox"/> -N	27	2.52MHz, 1V	0.26	1.4
SCD0503T-330 <input type="checkbox"/> -N	33	2.52MHz, 1V	0.33	1.1
SCD0503T-390 <input type="checkbox"/> -N	39	2.52MHz, 1V	0.42	1
SCD0503T-470 <input type="checkbox"/> -N	47	2.52MHz, 1V	0.5	0.9
SCD0503T-560 <input type="checkbox"/> -N	56	2.52MHz, 1V	0.55	0.85
SCD0503T-680 <input type="checkbox"/> -N	68	2.52MHz, 1V	0.65	0.8
SCD0503T-820 <input type="checkbox"/> -N	82	2.52MHz, 1V	0.8	0.65
SCD0503T-101 <input type="checkbox"/> -N	100	1KHz, 1V	0.9	0.6
SCD0503T-121 <input type="checkbox"/> -N	120	1KHz, 1V	1	0.58
SCD0503T-151 <input type="checkbox"/> -N	150	1KHz, 1V	1.3	0.43
SCD0503T-181 <input type="checkbox"/> -N	180	1KHz, 1V	1.5	0.41
SCD0503T-221 <input type="checkbox"/> -N	220	1KHz, 1V	2	0.38
SCD0503T-271 <input type="checkbox"/> -N	270	1KHz, 1V	2.5	0.35
SCD0503T-331 <input type="checkbox"/> -N	330	1KHz, 1V	3.2	0.28
SCD0503T-391 <input type="checkbox"/> -N	390	1KHz, 1V	3.5	0.26
SCD0503T-471 <input type="checkbox"/> -N	470	1KHz, 1V	4.2	0.2
SCD0503T-561 <input type="checkbox"/> -N	560	1KHz, 1V	4.5	0.19
SCD0503T-681 <input type="checkbox"/> -N	680	1KHz, 1V	6.5	0.18
SCD0503T-821 <input type="checkbox"/> -N	820	1KHz, 1V	7.5	0.15
SCD0503T-102 <input type="checkbox"/> -N	1000	1KHz, 1V	8	0.13

NOTE : -tolerance K= \pm 10% / \pm 15% / M= \pm 20% / N= \pm 40% -20%

1. Operating temperature range -40°C~85°C

2. this indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\Delta t=40^\circ\text{C}$ Whichever is lower.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD0504T-3R3 <input type="checkbox"/> -N	3.3	7.96MHz, 1V	0.0314	2.59
SCD0504T-100 <input type="checkbox"/> -N	10	2.52MHz, 1V	0.1	1.44
SCD0504T-120 <input type="checkbox"/> -N	12	2.52MHz, 1V	0.12	1.4
SCD0504T-150 <input type="checkbox"/> -N	15	2.52MHz, 1V	0.14	1.3
SCD0504T-180 <input type="checkbox"/> -N	18	2.52MHz, 1V	0.15	1.23
SCD0504T-220 <input type="checkbox"/> -N	22	2.52MHz, 1V	0.18	1.11
SCD0504T-270 <input type="checkbox"/> -N	27	2.52MHz, 1V	0.2	0.97
SCD0504T-330 <input type="checkbox"/> -N	33	2.52MHz, 1V	0.23	0.88
SCD0504T-390 <input type="checkbox"/> -N	39	2.52MHz, 1V	0.32	0.8
SCD0504T-470 <input type="checkbox"/> -N	47	2.52MHz, 1V	0.37	0.72
SCD0504T-560 <input type="checkbox"/> -N	56	2.52MHz, 1V	0.42	0.68
SCD0504T-680 <input type="checkbox"/> -N	68	2.52MHz, 1V	0.46	0.61
SCD0504T-820 <input type="checkbox"/> -N	82	2.52MHz, 1V	0.6	0.58
SCD0504T-101 <input type="checkbox"/> -N	100	1KHz, 1V	0.7	0.52
SCD0504T-121 <input type="checkbox"/> -N	120	1KHz, 1V	0.93	0.48
SCD0504T-151 <input type="checkbox"/> -N	150	1KHz, 1V	1.1	0.4
SCD0504T-181 <input type="checkbox"/> -N	180	1KHz, 1V	1.38	0.38
SCD0504T-221 <input type="checkbox"/> -N	220	1KHz, 1V	1.57	0.35
SCD0504T-102 <input type="checkbox"/> -N	1000	1KHz, 1V	10	0.03

NOTE : -tolerance K= \pm 10% / \pm 15% / M= \pm 20% / N= \pm 40% -20%

1. Operating temperature range -40°C~85°C

2. this indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\Delta t=40^\circ\text{C}$ Whichever is lower.

"-N"FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)

ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD0703T-100 <input type="checkbox"/> -N	10	2.52MHz, 1V	0.08	1.44
SCD0703T-120 <input type="checkbox"/> -N	12	2.52MHz, 1V	0.09	1.39
SCD0703T-150 <input type="checkbox"/> -N	15	2.52MHz, 1V	0.1	1.24
SCD0703T-180 <input type="checkbox"/> -N	18	2.52MHz, 1V	0.11	1.12
SCD0703T-220 <input type="checkbox"/> -N	22	2.52MHz, 1V	0.13	1.07
SCD0703T-270 <input type="checkbox"/> -N	27	2.52MHz, 1V	0.15	0.94
SCD0703T-330 <input type="checkbox"/> -N	33	2.52MHz, 1V	0.17	0.85
SCD0703T-390 <input type="checkbox"/> -N	39	2.52MHz, 1V	0.22	0.74
SCD0703T-470 <input type="checkbox"/> -N	47	2.52MHz, 1V	0.25	0.68
SCD0703T-560 <input type="checkbox"/> -N	56	2.52MHz, 1V	0.28	0.64
SCD0703T-680 <input type="checkbox"/> -N	68	2.52MHz, 1V	0.33	0.59
SCD0703T-820 <input type="checkbox"/> -N	82	2.52MHz, 1V	0.41	0.54
SCD0703T-101 <input type="checkbox"/> -N	100	1KHz, 1V	0.48	0.51
SCD0703T-121 <input type="checkbox"/> -N	120	1KHz, 1V	0.54	0.49
SCD0703T-151 <input type="checkbox"/> -N	150	1KHz, 1V	0.75	0.4
SCD0703T-181 <input type="checkbox"/> -N	180	1KHz, 1V	1.02	0.36
SCD0703T-221 <input type="checkbox"/> -N	220	1KHz, 1V	1.2	0.31
SCD0703T-271 <input type="checkbox"/> -N	270	1KHz, 1V	1.31	0.29
SCD0703T-331 <input type="checkbox"/> -N	330	1KHz, 1V	1.5	0.28

NOTE : -tolerance K= \pm 10% / \pm 15% / M= \pm 20% / N= \pm 40% -20%

1. Operating temperature range -40°C~85°C

2. this indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\Delta t=40^\circ\text{C}$ Whichever is lower.



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD0705T-1R0 □ -N	1	2.52MHz, 1V	0.02	3.7
SCD0705T-1R4 □ -N	1.4	7.96MHz, 1V	0.02	3.7
SCD0705T-1R8 □ -N	1.8	7.96MHz, 1V	0.02	3.7
SCD0705T-2R2 □ -N	2.2	7.96MHz, 1V	0.02	3.7
SCD0705T-2R7 □ -N	2.7	7.96MHz, 1V	0.02	3.7
SCD0705T-3R3 □ -N	3.3	7.96MHz, 1V	0.03	3.7
SCD0705T-3R9 □ -N	3.9	7.96MHz, 1V	0.03	3.7
SCD0705T-4R7 □ -N	4.7	7.96MHz, 1V	0.04	3.5
SCD0705T-5R6 □ -N	5.6	7.96MHz, 1V	0.04	3.3
SCD0705T-6R8 □ -N	6.8	7.96MHz, 1V	0.04	3.1
SCD0705T-8R2 □ -N	8.2	7.96MHz, 1V	0.05	2.7
SCD0705T-100 □ -N	10	2.52MHz, 1V	0.07	2.3
SCD0705T-120 □ -N	12	2.52MHz, 1V	0.08	2
SCD0705T-150 □ -N	15	2.52MHz, 1V	0.09	1.8
SCD0705T-180 □ -N	18	2.52MHz, 1V	0.1	1.6
SCD0705T-220 □ -N	22	2.52MHz, 1V	0.11	1.5
SCD0705T-270 □ -N	27	2.52MHz, 1V	0.12	1.3
SCD0705T-330 □ -N	33	2.52MHz, 1V	0.13	1.2
SCD0705T-390 □ -N	39	2.52MHz, 1V	0.16	1.1
SCD0705T-470 □ -N	47	2.52MHz, 1V	0.18	1.1
SCD0705T-560 □ -N	56	2.52MHz, 1V	0.24	0.94
SCD0705T-680 □ -N	68	2.52MHz, 1V	0.28	0.85
SCD0705T-820 □ -N	82	2.52MHz, 1V	0.37	0.78
SCD0705T-101 □ -N	100	1KHz, 1V	0.43	0.72
SCD0705T-121 □ -N	120	1KHz, 1V	0.47	0.66
SCD0705T-151 □ -N	150	1KHz, 1V	0.64	0.58
SCD0705T-181 □ -N	180	1KHz, 1V	0.71	0.51
SCD0705T-221 □ -N	220	1KHz, 1V	0.96	0.49
SCD0705T-271 □ -N	270	1KHz, 1V	1.11	0.42
SCD0705T-331 □ -N	330	1KHz, 1V	1.26	0.4
SCD0705T-391 □ -N	390	1KHz, 1V	1.77	0.36
SCD0705T-471 □ -N	470	1KHz, 1V	1.96	0.34

NOTE : □ -tolerance K= \pm 10% / \pm 15% / M= \pm 20% / N= \pm 40% -20%

1. Operating temperature range -40°C~85°C

2. this indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\Delta t=40^\circ\text{C}$ Whichever is lower.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD1004T-100 □-N	10	2.52MHz, 1V	0.05	2.38
SCD1004T-120 □-N	12	2.52MHz, 1V	0.06	2.13
SCD1004T-150 □-N	15	2.52MHz, 1V	0.07	1.87
SCD1004T-180 □-N	18	2.52MHz, 1V	0.08	1.73
SCD1004T-220 □-N	22	2.52MHz, 1V	0.09	1.6
SCD1004T-270 □-N	27	2.52MHz, 1V	0.1	1.44
SCD1004T-330 □-N	33	2.52MHz, 1V	0.12	1.26
SCD1004T-390 □-N	39	2.52MHz, 1V	0.15	1.2
SCD1004T-470 □-N	47	2.52MHz, 1V	0.17	1.1
SCD1004T-560 □-N	56	2.52MHz, 1V	0.2	1.01
SCD1004T-680 □-N	68	2.52MHz, 1V	0.22	0.91
SCD1004T-820 □-N	82	2.52MHz, 1V	0.25	0.85
SCD1004T-101 □-N	100	1KHz, 1V	0.34	0.74
SCD1004T-121 □-N	120	1KHz, 1V	0.4	0.69
SCD1004T-151 □-N	150	1KHz, 1V	0.54	0.61
SCD1004T-181 □-N	180	1KHz, 1V	0.62	0.56
SCD1004T-221 □-N	220	1KHz, 1V	0.72	0.53
SCD1004T-271 □-N	270	1KHz, 1V	0.95	0.45
SCD1004T-331 □-N	330	1KHz, 1V	1.1	0.42
SCD1004T-391 □-N	390	1KHz, 1V	1.24	0.38
SCD1004T-471 □-N	470	1KHz, 1V	1.53	0.35
SCD1004T-561 □-N	560	1KHz, 1V	1.9	0.32

NOTE : □ -tolerance K=±10% / =±15% / M=±20% / N=+40% -20%

1. Operating temperature range -40°C~85°C

2. this indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\Delta t=40^\circ\text{C}$ Whichever is lower.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCD1005T-4R7 <input type="checkbox"/> -N	4.7	7.96MHz, 1V	0.037	2.6
SCD1005T-6R8 <input type="checkbox"/> -N	6.8	7.96MHz, 1V	0.037	4.33
SCD1005T-100 <input type="checkbox"/> -N	10	2.52MHz, 1V	0.06	2.6
SCD1005T-120 <input type="checkbox"/> -N	12	2.52MHz, 1V	0.07	2.45
SCD1005T-150 <input type="checkbox"/> -N	15	2.52MHz, 1V	0.08	2.27
SCD1005T-180 <input type="checkbox"/> -N	18	2.52MHz, 1V	0.09	2.15
SCD1005T-220 <input type="checkbox"/> -N	22	2.52MHz, 1V	0.1	1.95
SCD1005T-270 <input type="checkbox"/> -N	27	2.52MHz, 1V	0.11	1.76
SCD1005T-330 <input type="checkbox"/> -N	33	2.52MHz, 1V	0.12	1.5
SCD1005T-390 <input type="checkbox"/> -N	39	2.52MHz, 1V	0.14	1.37
SCD1005T-470 <input type="checkbox"/> -N	47	2.52MHz, 1V	0.17	1.28
SCD1005T-560 <input type="checkbox"/> -N	56	2.52MHz, 1V	0.19	1.17
SCD1005T-680 <input type="checkbox"/> -N	68	2.52MHz, 1V	0.22	1.11
SCD1005T-820 <input type="checkbox"/> -N	82	2.52MHz, 1V	0.25	1
SCD1005T-101 <input type="checkbox"/> -N	100	1KHz, 1V	0.35	0.97
SCD1005T-121 <input type="checkbox"/> -N	120	1KHz, 1V	0.4	0.89
SCD1005T-151 <input type="checkbox"/> -N	150	1KHz, 1V	0.47	0.78
SCD1005T-181 <input type="checkbox"/> -N	180	1KHz, 1V	0.63	0.72
SCD1005T-221 <input type="checkbox"/> -N	220	1KHz, 1V	0.73	0.66
SCD1005T-271 <input type="checkbox"/> -N	270	1KHz, 1V	0.97	0.57
SCD1005T-331 <input type="checkbox"/> -N	330	1KHz, 1V	1.15	0.52
SCD1005T-391 <input type="checkbox"/> -N	390	1KHz, 1V	1.3	0.48
SCD1005T-471 <input type="checkbox"/> -N	470	1KHz, 1V	1.48	0.42
SCD1005T-561 <input type="checkbox"/> -N	560	1KHz, 1V	1.9	0.33
SCD1005T-681 <input type="checkbox"/> -N	680	1KHz, 1V	2.25	0.28
SCD1005T-821 <input type="checkbox"/> -N	820	1KHz, 1V	2.55	0.24

NOTE : -tolerance K= \pm 10% / = \pm 15% / M= \pm 20% / N= \pm 40% -20%

1. Operating temperature range -40°C~85°C

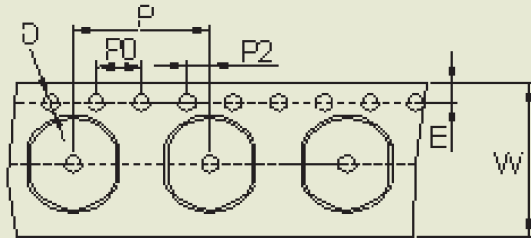
2. this indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition of D.C current when at $\Delta t=40^\circ\text{C}$ Whichever is lower.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)

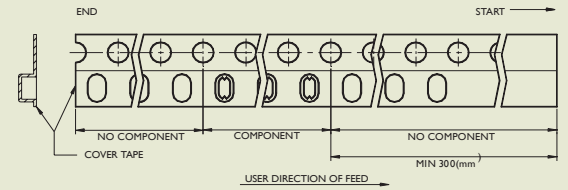


SMD UNSHIELDED POWER INDUCTORS - SCD SERIES

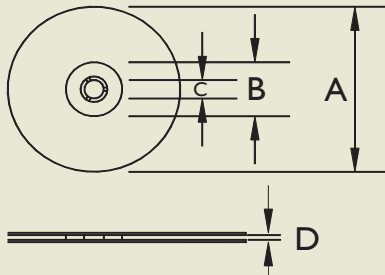
Packaging Specifications



Tape Material



Reel Dimensions



Dimensions : mm

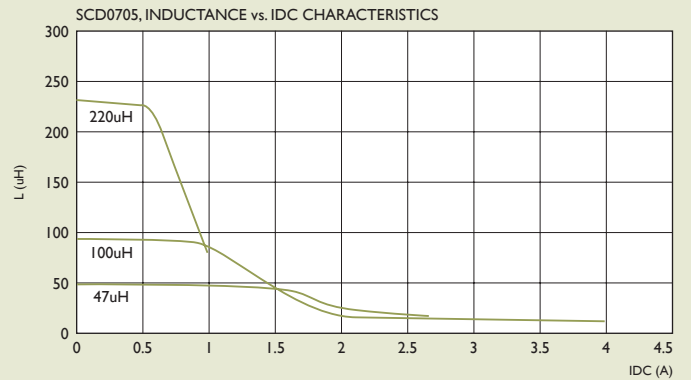
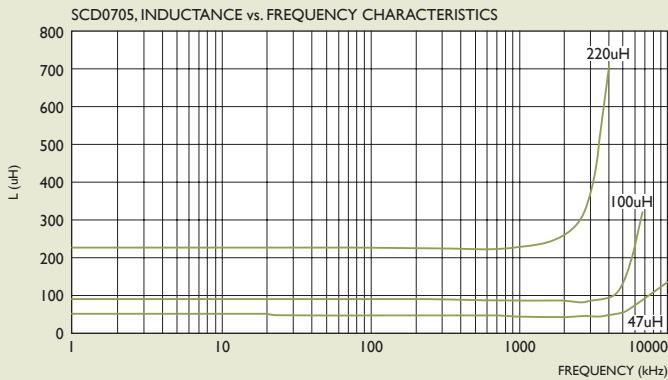
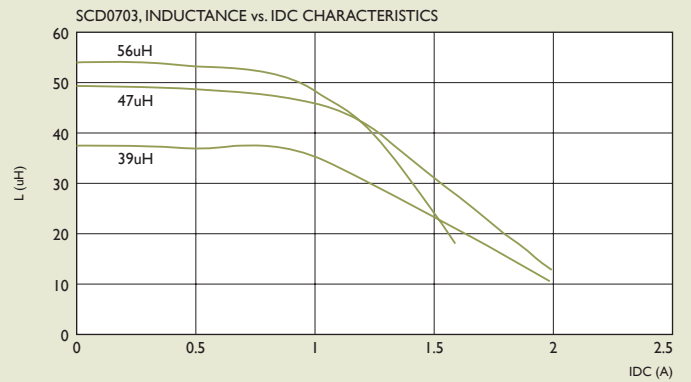
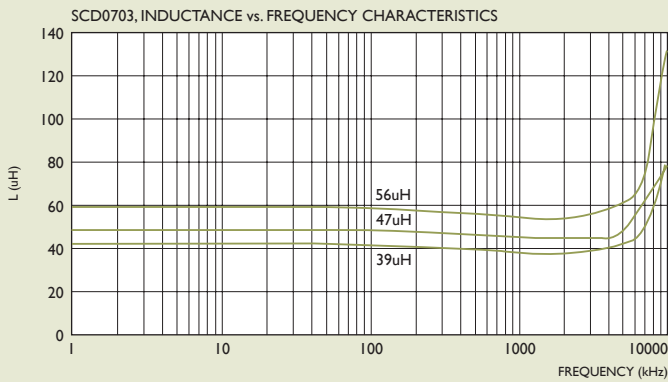
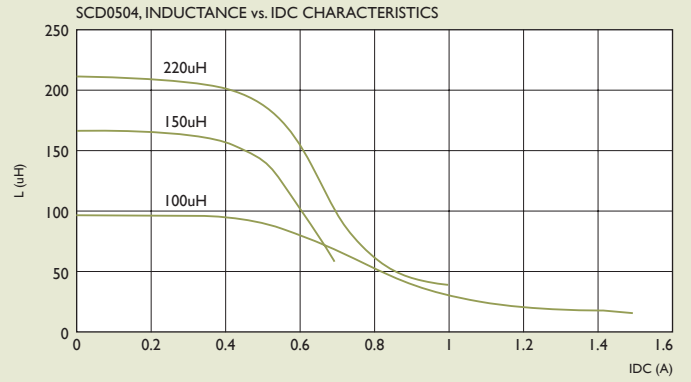
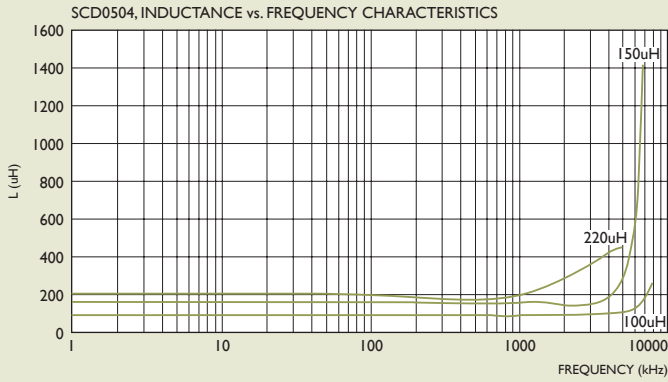
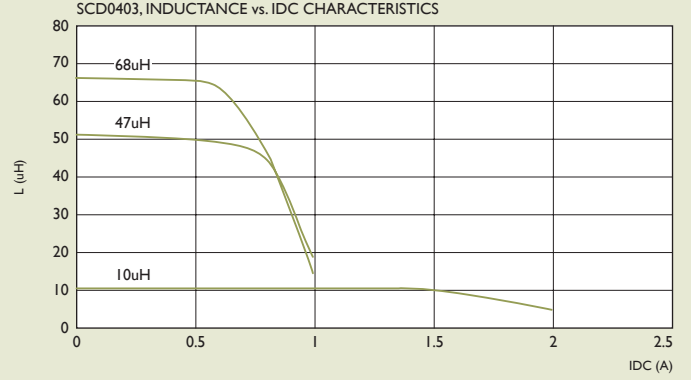
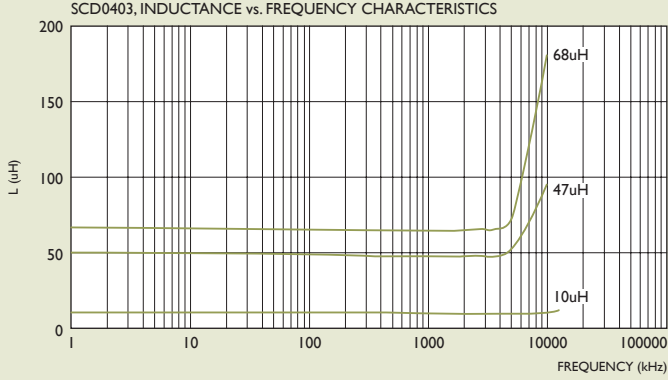
TYPE	TAPE DIMENSIONS							RECOMMENDED PATTERN		REEL DIMENSIONS				QUANTITY PCS/REEL
	K0	D	E	W	P	P0	P2	A	B	A	B	C	D	
SCD0301	1.2	1.50	1.75	12	8	4	2			330	100	13	13.4	5000
SCD03015	1.80	1.55	1.75	12	8	4	2	4.5	1.0	330	100	13	13.4	3000
SCD03021	2.50	1.55	1.75	12	8	4	2	4.5	1.0	330	100	13	13.4	3000
SCD0403	3.1	1.55	1.75	12	8	4	2	5.5	1.2	330	100	13	13.4	2000
SCD0501	2.35	1.55	1.75	12	8	4	2	6.8	2.0	330	100	13	13.4	2000
SCD0502	3.00	1.55	1.75	12	8	4	2	6.8	2.0	330	100	13	13.4	2000
SCD0503	3.30	1.55	1.75	12	8	4	2	6.8	2.0	330	100	13	13.4	2000
SCD0504	4.8	1.55	1.75	16	8	4	2	6.8	1.3	330	100	13	17.4	1500
SCD0703	3.8	1.55	1.75	16	12	4	2	8.8	2.1	330	100	13	17.4	1000
SCD0705	5.2	1.55	1.75	16	12	4	2	8.8	2.1	330	100	13	17.4	700
SCD1004	5.8	1.55	1.75	24	12	4	2	11	2.1	330	100	13	24.4	700
SCD1005	5.8	1.55	1.75	24	12	4	2	11	2.1	330	100	13	24.4	700
SCDR105B	5.8	1.55	1.75	24	12	4	2	10	2.5	330	100	13	24.4	750



TYPICAL ELECTRICAL CHARACTERISTICS

Curves of SCD Series

Test Instruments : HP4291A Impedance / Material Analyzer

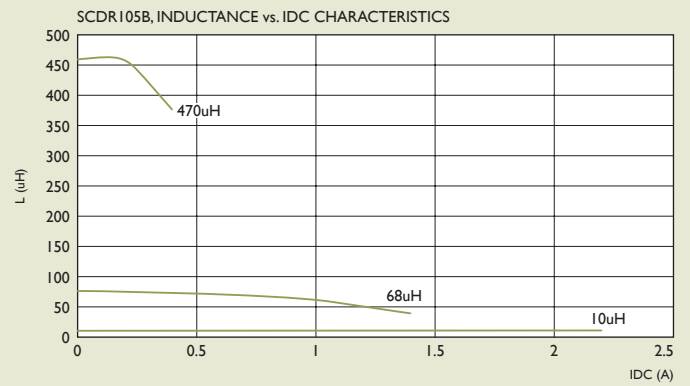
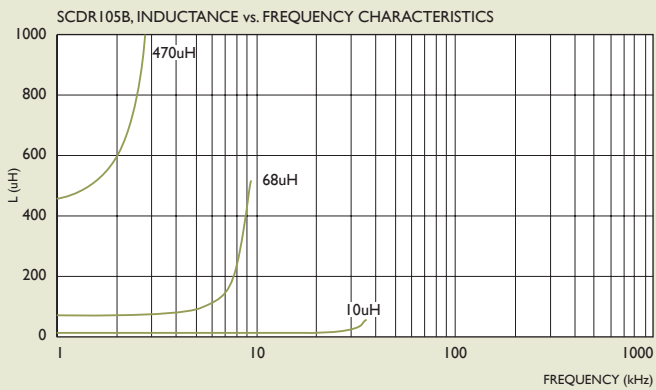
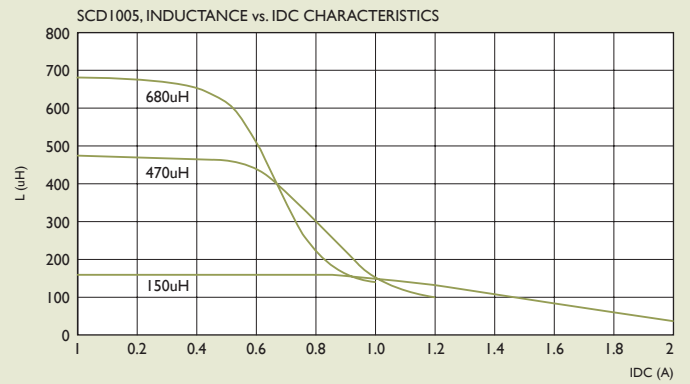
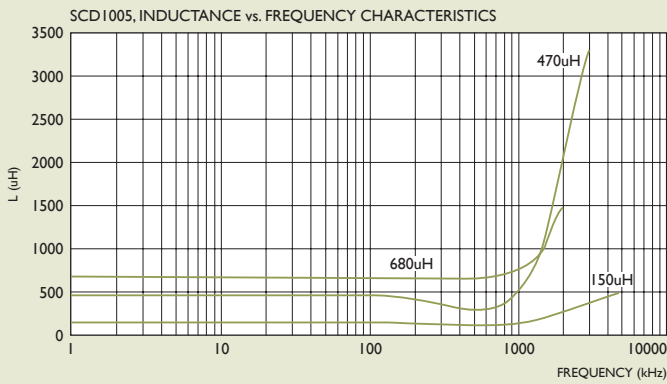
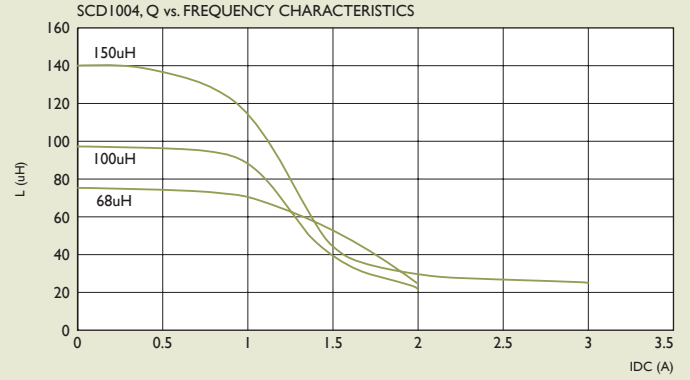
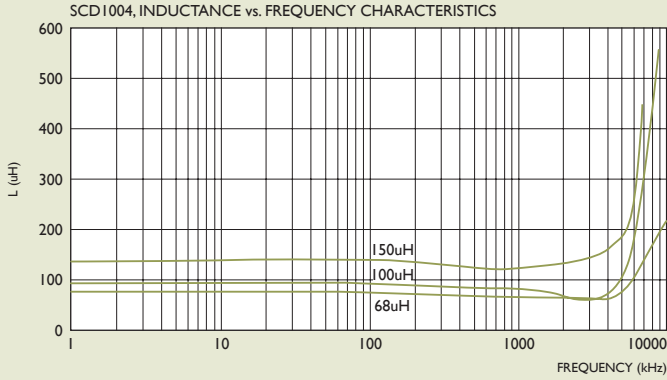




TYPICAL ELECTRICAL CHARACTERISTICS

Curves of SCD Series

Test Instruments : HP4291A Impedance / Material Analyzer





SCD SERIES RELIABILITY TEST

I-1 MECHANICAL PERFORMANCE

NO.	ITEM	SPECIFICATION	TEST CONDITIONS
I-1-1	Vibration	Appearance : No Damage L Change : within $\pm 10\%$ Q Change : within $\pm 30\%$ RDC : within Specification	Test device shall be soldered on the substrate. Oscillation Frequency : 10 to 55 to 10Hz for 1Min. Amplitude : 1.5mm Time : 2Hrs. for each Axis (X,Y & Z), Total 6Hrs.
I-1-2	Resistance to Soldering Heat	Appearance : No Damage	Pre-heating : 150°C, 1Min. Solder Composition : Sn/Pb = 63/37 Solder Temperature : 260 \pm 5°C Immersion Time : 10 \pm 1Sec.
I-1-3	Solderability	The electrodes shall be at least 90% covered with new solder coating.	Pre-heating : 150°C, 1Min. Solder Composition : Sn/Pb = 63/37 Solder Temperature : 230 \pm 5°C Immersion Time : 4 \pm 1Sec.

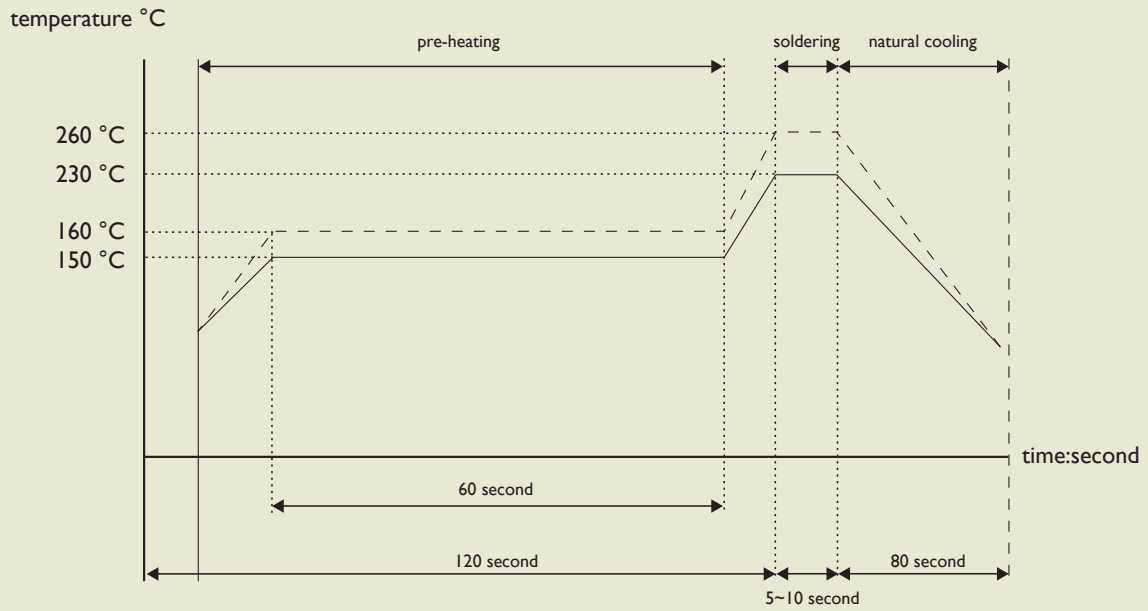
I-2 ENVIRONMENTAL PERFORMANCE

NO.	ITEM	SPECIFICATION	TEST CONDITIONS															
I-2-1	Temperature Shock	Appearance : No Damage L Change : within $\pm 10\%$ L Change : within $\pm 30\%$ RDC : within Specification	10 Cycles (Air to Air) 1 Cycles shall Consist of : 30Min. Exposure to -55°C 30Min. Exposure to -125°C 15Sec. Max. Transition between Temperatures Measured after Exposure in the Room Condition for 24Hrs.															
I-2-2	Temperature Cycle		One Cycle <table border="1"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Time (Min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25 \pm 3</td> <td>30</td> </tr> <tr> <td>2</td> <td>25 \pm 2</td> <td>3</td> </tr> <tr> <td>3</td> <td>85 \pm 3</td> <td>30</td> </tr> <tr> <td>4</td> <td>25 \pm 2</td> <td>3</td> </tr> </tbody> </table> Total : 100 Cycles Measured after Exposure in the Room Condition for 24Hrs.	Step	Temperature (°C)	Time (Min.)	1	-25 \pm 3	30	2	25 \pm 2	3	3	85 \pm 3	30	4	25 \pm 2	3
Step	Temperature (°C)	Time (Min.)																
1	-25 \pm 3	30																
2	25 \pm 2	3																
3	85 \pm 3	30																
4	25 \pm 2	3																
I-2-3	Humidity Resistance		Temperature : 40 \pm 2°C Relative Humidity : 90 ~ 95% Time : 1000Hrs. Measured after Exposure in the Room Condition for 24Hrs.															
I-2-4	High Temperature Resistance		Temperature : 85 \pm 3°C Relative Humidity : 20% Applied Current : Rated Current Time : 1000Hrs. Measured after Exposure in the Room Condition for 24Hrs.															
I-2-5	Low Temperature Resistance		Temperature : -25 \pm 3°C Relative Humidity : 0% Time : 1000Hrs. Measured after Exposure in the Room Condition for 24Hrs.															



RECOMMEND SOLDERING CONDITIONS

for: CL/ CLH/ SQV/ SMD power inductors/ SMD Chip Beads/ SMD Filters, Transformers, Current Sensors



for: lead solder

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for: lead-free solder

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