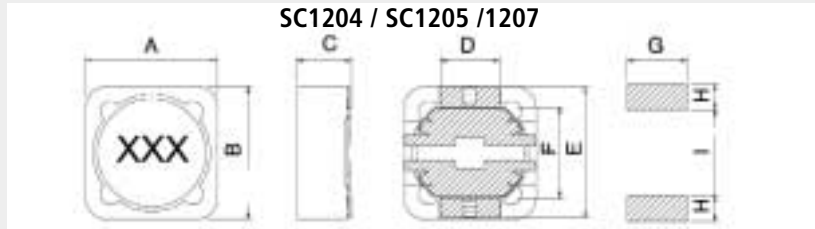
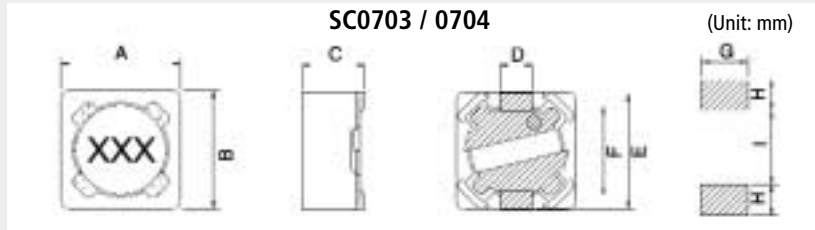


POWER INDUCTOR (SHIELDED)

POWER CHOKE - SC0703/0704/1204/1205/1207 SERIES



EXTERNAL DIMENSIONS



Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- Maximum allowable DC current is that which causes a 25% inductance reduction of the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C)
- Operating Temperature Range : -25°C to +85°C.

Features

- Low profile and compact design.
- Magnetic Shielded surface.
- Large current rating low DC resistance to keep power to a minimum.
- Suitable for lead free soldering
- ROHS compliant.

Applications

- Excellent for power line DC-DC conversion application used in hard disk, notebook computers and other electronic equipment.

Solder Land Information

Type	A	B	C	D	E	F	G	H	I
SC0703	7.5max.	7.5max.	3.5max.	1.8	7.2	5.4	2.2	1.5	4.8
SC0704	7.5max.	7.5max.	4.5max.	1.8	7.2	5.4	2.2	1.5	4.8
SC1204	12.3max.	12.3max.	4.5max.	5.0	11.8	7.6	5.4	2.8	7.0
SC1205	12.3max.	12.3max.	6.0max.	5.0	11.8	7.6	5.4	2.8	7.0
SC1207	12.3max.	12.3max.	8.0max.	5.0	11.8	7.6	5.4	2.8	7.0

POWER INDUCTOR (SHIELDED)

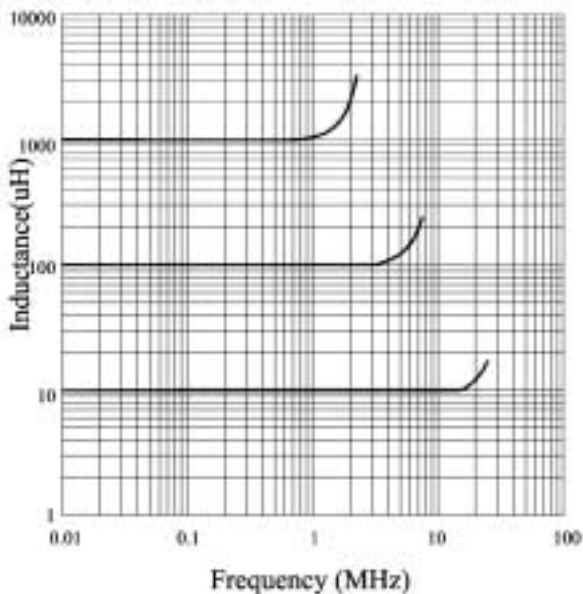
POWER CHOKE - SC0703 SERIES

Specifications

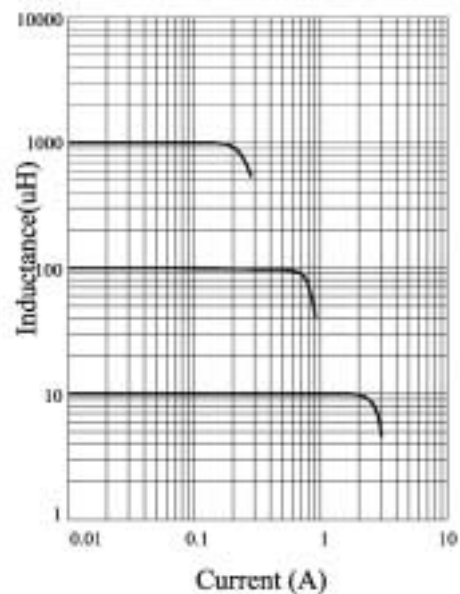
Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) max.	Rated DC Current (A) max.
SC0703-100 □	10	100	0.072	1.68
SC0703-120 □	12	100	0.098	1.52
SC0703-150 □	15	100	0.13	1.33
SC0703-180 □	18	100	0.14	1.20
SC0703-220 □	22	100	0.19	1.07
SC0703-270 □	27	100	0.21	0.96
SC0703-330 □	33	100	0.24	0.91
SC0703-390 □	39	100	0.32	0.77
SC0703-470 □	47	100	0.36	0.76
SC0703-560 □	56	100	0.47	0.68
SC0703-680 □	68	100	0.52	0.61
SC0703-820 □	82	100	0.69	0.57
SC0703-101 □	100	100	0.79	0.50
SC0703-121 □	120	100	0.89	0.49
SC0703-151 □	150	100	1.27	0.43
SC0703-181 □	180	100	1.45	0.39
SC0703-221 □	220	100	1.65	0.35
SC0703-271 □	270	100	2.31	0.32
SC0703-331 □	330	100	2.62	0.28
SC0703-391 □	390	100	2.94	0.26
SC0703-471 □	470	100	4.18	0.24
SC0703-561 □	560	100	4.67	0.22
SC0703-681 □	680	100	5.73	0.19
SC0703-821 □	820	100	6.54	0.18
SC0703-102 □	1000	100	9.44	0.16

NOTE: □ Tolerance value: K = ±10%, L = ±15%, M = ±20%

Typical L vs Frequency



Typical L vs Current



POWER INDUCTOR (SHIELDED)

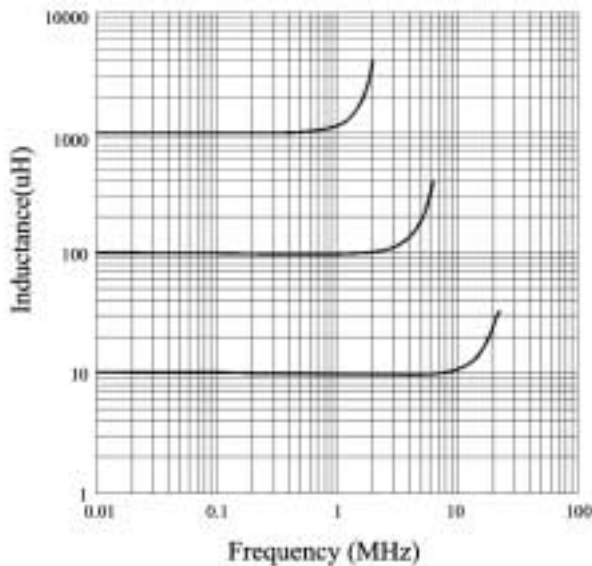
POWER CHOKE - SC0704 SERIES

Specifications

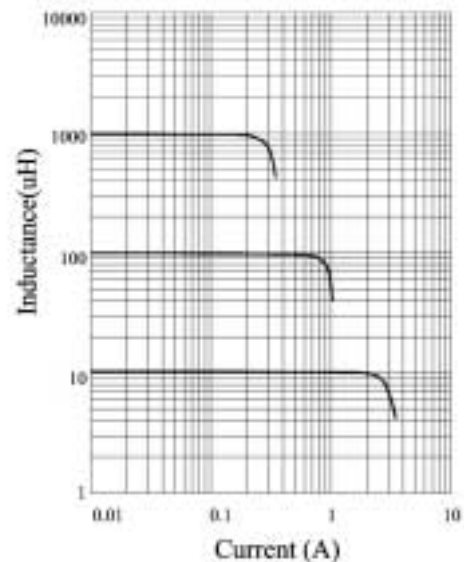
Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) max.	Rated DC Current (A) max.
SC0704-100 □	10	100	0.049	1.84
SC0704-120 □	12	100	0.063	1.71
SC0704-150 □	15	100	0.081	1.47
SC0704-180 □	18	100	0.091	1.31
SC0704-220 □	22	100	0.11	1.23
SC0704-270 □	27	100	0.15	1.12
SC0704-330 □	33	100	0.17	0.96
SC0704-390 □	39	100	0.23	0.91
SC0704-470 □	47	100	0.26	0.88
SC0704-560 □	56	100	0.35	0.75
SC0704-680 □	68	100	0.38	0.69
SC0704-820 □	82	100	0.45	0.61
SC0704-101 □	100	100	0.61	0.60
SC0704-121 □	120	100	0.66	0.52
SC0704-151 □	150	100	0.88	0.46
SC0704-181 □	180	100	0.98	0.42
SC0704-221 □	220	100	1.17	0.36
SC0704-271 □	270	100	1.64	0.34
SC0704-331 □	330	100	1.86	0.32
SC0704-391 □	390	100	2.85	0.29
SC0704-471 □	470	100	3.01	0.26
SC0704-561 □	560	100	3.62	0.23
SC0704-681 □	680	100	4.63	0.22
SC0704-821 □	820	100	5.20	0.20
SC0704-102 □	1000	100	6.00	0.18

NOTE: □ Tolerance value: K = ±10%, L = ±15%, M = ±20%

Typical L vs Frequency



Typical L vs Current



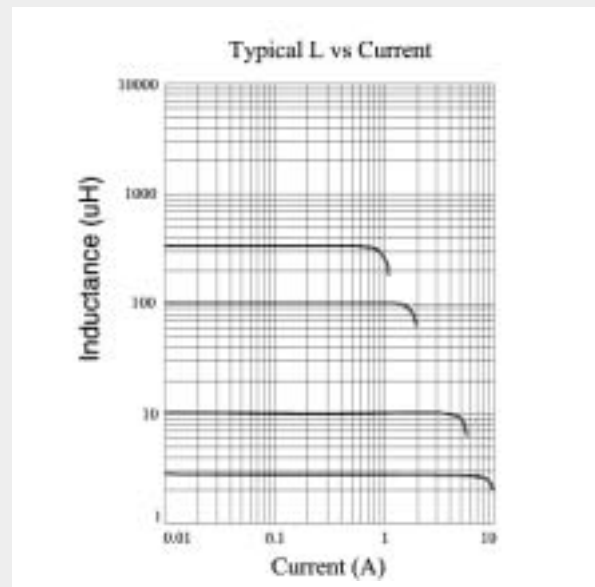
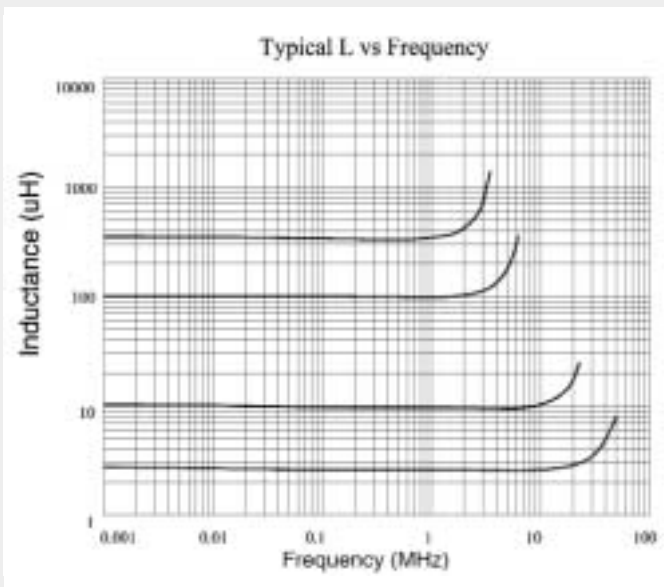
POWER INDUCTOR (SHIELDED)

POWER CHOKE - SC1204 SERIES

Specifications

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) max.	Rated DC Current (A) max.
SC1204-2R2 □	2.2	100	0.008	7.00
SC1204-2R7 □	2.7	100	0.012	6.70
SC1204-3R5 □	3.5	100	0.015	6.60
SC1204-3R9 □	3.9	100	0.015	6.50
SC1204-4R7 □	4.7	100	0.018	5.60
SC1204-5R6 □	5.6	100	0.018	5.20
SC1204-6R8 □	6.8	100	0.022	4.90
SC1204-7R6 □	7.6	100	0.026	4.70
SC1204-8R2 □	8.2	100	0.026	4.60
SC1204-100 □	10	100	0.028	4.50
SC1204-120 □	12	100	0.038	4.00
SC1204-150 □	15	100	0.050	3.20
SC1204-180 □	18	100	0.057	3.10
SC1204-220 □	22	100	0.066	2.90
SC1204-270 □	27	100	0.080	2.80
SC1204-330 □	33	100	0.097	2.70
SC1204-390 □	39	100	0.132	2.10
SC1204-470 □	47	100	0.150	1.90
SC1204-560 □	56	100	0.180	1.80
SC1204-680 □	68	100	0.220	1.50
SC1204-820 □	82	100	0.260	1.30
SC1204-101 □	100	100	0.308	1.20
SC1204-121 □	120	100	0.380	1.10
SC1204-151 □	150	100	0.530	0.95
SC1204-181 □	180	100	0.620	0.85
SC1204-221 □	220	100	0.700	0.80
SC1204-271 □	270	100	0.875	0.60
SC1204-331 □	330	100	0.990	0.50

NOTE: □ Tolerance value: K = ±10%, M = ±20%. N = ±30%.



POWER INDUCTOR (SHIELDED)

POWER CHOKE - SC1205 SERIES

Specifications

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) max.	Rated DC Current (A) max.
SC1205-1R8 □	1.8	10	0.005	8.00
SC1205-2R7 □	2.7	10	0.007	7.00
SC1205-3R9 □	3.9	10	0.009	6.00
SC1205-4R7 □	4.7	10	0.012	5.30
SC1205-6R1 □	6.1	10	0.013	4.80
SC1205-6R8 □	6.8	10	0.014	4.70
SC1205-7R6 □	7.6	10	0.017	4.50
SC1205-8R2 □	8.2	10	0.020	4.30
SC1205-100 □	10	10	0.025	4.00
SC1205-120 □	12	10	0.027	3.50
SC1205-150 □	15	10	0.030	3.30
SC1205-180 □	18	10	0.034	3.00
SC1205-220 □	22	10	0.036	2.80
SC1205-270 □	27	10	0.051	2.30
SC1205-330 □	33	10	0.060	2.10
SC1205-390 □	39	10	0.068	2.00
SC1205-470 □	47	10	0.075	1.80
SC1205-560 □	56	10	0.11	1.70
SC1205-680 □	68	10	0.12	1.50
SC1205-820 □	82	10	0.14	1.40
SC1205-101 □	100	10	0.18	1.30
SC1205-121 □	120	10	0.20	1.10
SC1205-151 □	150	10	0.23	1.00
SC1205-181 □	180	10	0.29	0.90
SC1205-221 □	220	10	0.45	0.80
SC1205-271 □	270	10	0.50	0.75
SC1205-331 □	330	10	0.59	0.68
SC1205-391 □	390	10	0.69	0.65
SC1205-471 □	470	10	0.77	0.58
SC1205-561 □	560	10	0.86	0.54
SC1205-681 □	680	10	1.20	0.48
SC1205-821 □	820	10	1.34	0.43
SC1205-102 □	1000	10	1.53	0.40

NOTE: □ Tolerance value: K = ±10%, M = ±20%. N = ±30%.

POWER INDUCTOR (SHIELDED)

POWER CHOKE - SC1207 SERIES

Specifications

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) max.	Rated DC Current (A) max.
SC1207-1R2 □	1.2	10	7.0m	9.8
SC1207-1R8 □	1.8	10	11.5m	8.0
SC1207-3R3 □	3.3	10	13.5m	7.5
SC1207-4R7 □	4.7	10	15.8m	6.8
SC1207-6R1 □	6.1	10	17.6m	6.6
SC1207-7R6 □	7.6	10	20.0m	5.9
SC1207-100 □	10	10	21.6m	5.4
SC1207-120 □	12	10	24.3m	4.9
SC1207-150 □	15	10	27.0m	4.5
SC1207-180 □	18	10	39.2m	3.9
SC1207-220 □	22	10	43.2m	3.6
SC1207-270 □	27	10	45.9m	3.4
SC1207-330 □	33	10	64.8m	3.0
SC1207-390 □	39	10	72.9m	2.75
SC1207-470 □	47	10	77.0m	2.50
SC1207-560 □	56	10	97.0m	2.35
SC1207-680 □	68	10	0.10	2.10
SC1207-820 □	82	10	0.12	1.95
SC1207-101 □	100	10	0.15	1.70
SC1207-121 □	120	10	0.17	1.60
SC1207-151 □	150	10	0.19	1.42
SC1207-181 □	180	10	0.25	1.30
SC1207-221 □	220	10	0.35	1.16
SC1207-271 □	270	10	0.39	1.06
SC1207-331 □	330	10	0.48	0.95
SC1207-391 □	390	10	0.54	0.88
SC1207-471 □	470	10	0.79	0.79
SC1207-561 □	560	10	0.87	0.73
SC1207-681 □	680	10	1.00	0.67
SC1207-821 □	820	10	1.20	0.60
SC1207-102 □	1000	10	1.30	0.55

NOTE: □ Tolerance value: K = ±10%, M = ±20%. N = ±30%.

