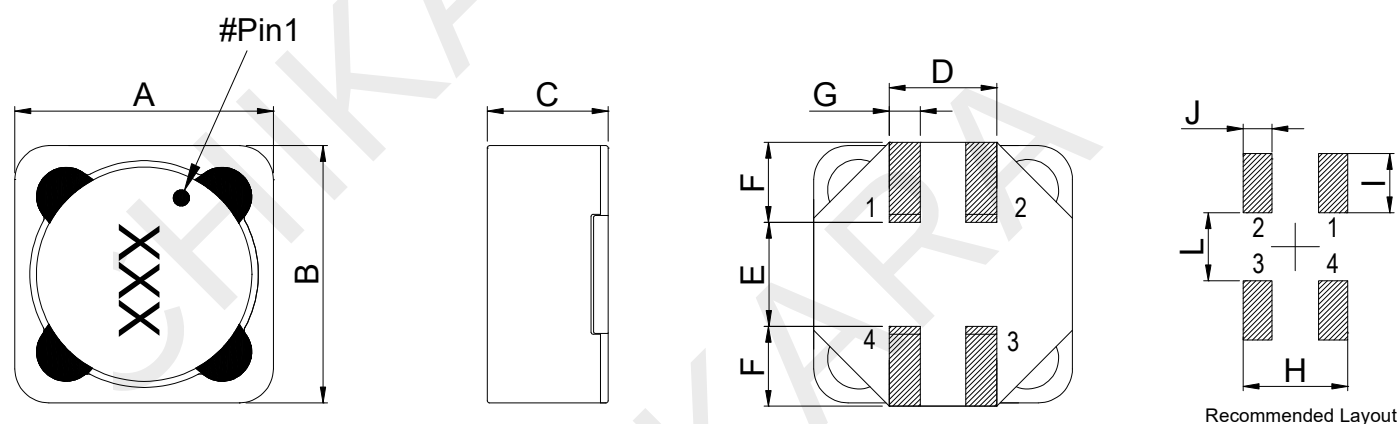


Features

- Magnetically shielded construction
- Storage temperature range:-40°C to +125°C
- Operating temperature range:-40°C to +125°C
(including coil's self-temperature rise)
- Moisture sensitivity level:1
- Packaging:1000pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



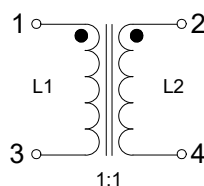
A	B	C	D	E	F	G	H	I	L	J
7.3±0.3	7.3±0.3	4.6Max.	2.7±0.3	4.0±0.3	1.5±0.2	0.8±0.2	3.2	2.3	3.3	1.3

Part Number Description

SC01 - 0704 2R5 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



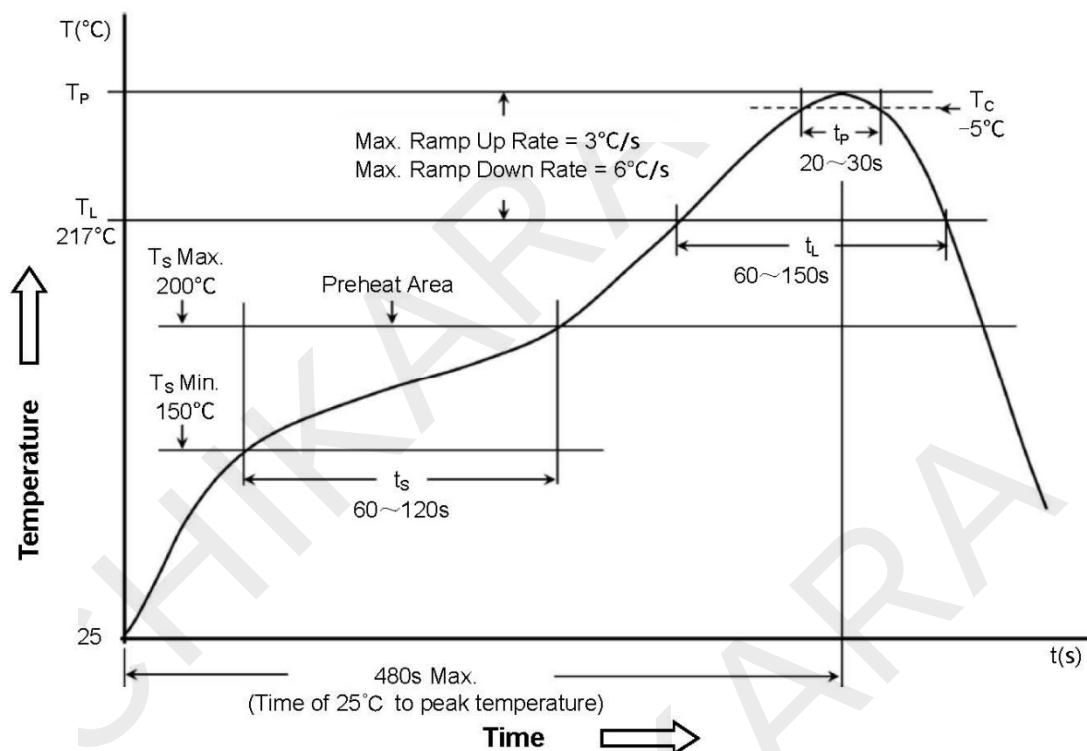
Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (mΩ)Max.	SRF (MHz)Typ.	LK (μH)Typ.	Isat (A)Typ.	Irms ¹ (A)Typ.	Irms ² (A)Typ.
SC01-07042R5M	2.5±20%	33.0	55	0.14	6.30	2.17	3.06
SC01-07043R3M	3.3±20%	37.0	43	0.09	5.40	2.05	2.89
SC01-07044R7M	4.7±20%	51.0	35	0.11	4.60	1.74	2.46
SC01-07045R6M	5.6±20%	63.0	32	0.09	4.20	1.57	2.22
SC01-07046R8M	6.8±20%	70.0	30	0.14	3.90	1.49	2.10
SC01-07048R2M	8.2±20%	75.0	27	0.25	3.50	1.44	2.03
SC01-0704100M	10±20%	100	22	0.30	3.00	1.24	1.76
SC01-0704120M	12±20%	120	20	0.36	2.70	1.14	1.61
SC01-0704150M	15±20%	130	18	0.49	2.40	1.09	1.54
SC01-0704180M	18±20%	170	15	0.16	2.30	0.95	1.35
SC01-0704220M	22±20%	220	13	0.20	2.10	0.84	1.19
SC01-0704270M	27±20%	250	12	0.20	1.90	0.79	1.11
SC01-0704330M	33±20%	270	11	0.15	1.70	0.76	1.07
SC01-0704390M	39±20%	380	10	0.70	1.50	0.64	0.90
SC01-0704470M	47±20%	420	9.5	0.30	1.40	0.61	0.86
SC01-0704560M	56±20%	460	8.7	0.51	1.30	0.58	0.82
SC01-0704680M	68±20%	600	7.3	0.51	1.20	0.51	0.72
SC01-0704820M	82±20%	680	6.2	1.17	1.10	0.48	0.67
SC01-0704101M	100±20%	770	5.5	0.96	0.98	0.45	0.63
SC01-0704121M	120±20%	1030	4.5	0.61	0.90	0.39	0.55
SC01-0704151M	150±20%	1350	4.0	0.54	0.80	0.34	0.48
SC01-0704181M	180±20%	1520	3.8	0.75	0.73	0.32	0.45
SC01-0704221M	220±20%	1720	3.5	1.43	0.66	0.30	0.42
SC01-0704271M	270±20%	2410	3.3	1.56	0.60	0.25	0.36
SC01-0704331M	330±20%	2700	3.0	1.65	0.54	0.24	0.34
SC01-0704391M	390±20%	3050	2.8	4.73	0.50	0.23	0.32
SC01-0704471M	470±20%	4000	2.6	5.50	0.46	0.20	0.28
SC01-0704561M	560±20%	4430	2.5	4.85	0.42	0.19	0.26
SC01-0704681M	680±20%	5000	2.3	7.59	0.38	0.18	0.25
SC01-0704821M	820±20%	6800	2.2	8.01	0.35	0.15	0.21
SC01-0704102K	1000±10%	7800	2.0	8.69	0.31	0.14	0.20

- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Winding to winding isolation 200Vrms.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms¹) will cause the coil temperature rise approximately Δt of 40°C(both windings).
- Heat rated current(Irms²) will cause the coil temperature rise approximately Δt of 40°C(one winding).

Soldering Specification

- Reflow profile for SMT components



- Classification of peak package body temperature (T_p)

	Package Thickness	Package Volume		
		<350mm ³	350~2000mm ³	>2000mm ³
PB-Free Assembly	<1.6mm	260°C	260°C	260°C
	1.6~2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

※ Reflow is referred to standard IPC/JEDEC J-STD-020D.