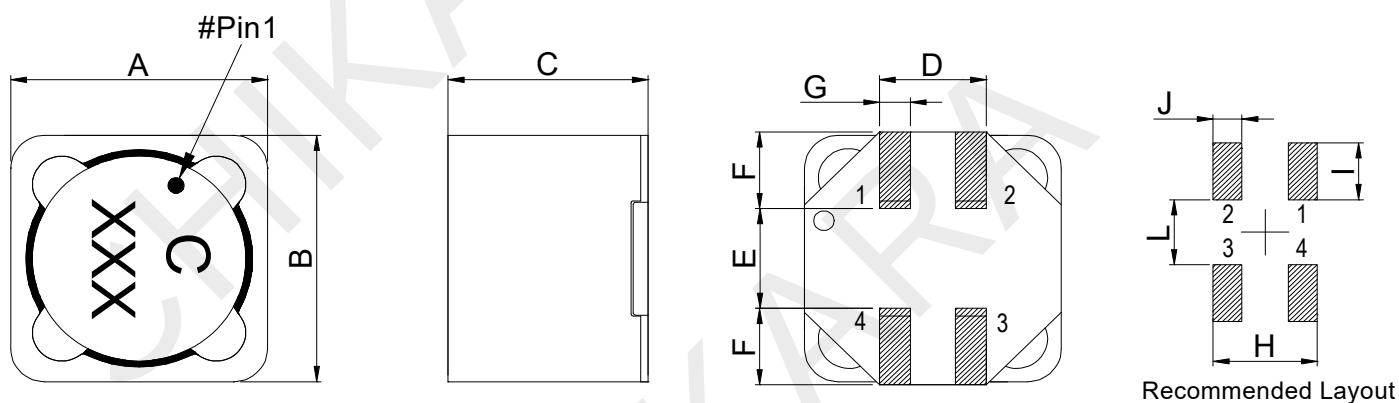


Features

- 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:500pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



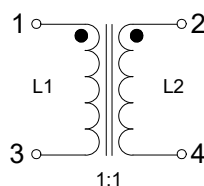
A	B	C	D	E	F	G	H	I	L	J
12.2±0.3	12.2±0.3	8.1Max.	5.0±0.3	5.0Nom.	3.5Nom.	1.7±0.2	5.5	4.0	4.5	2.0

Part Number Description

SC01 - 1208 4R7 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



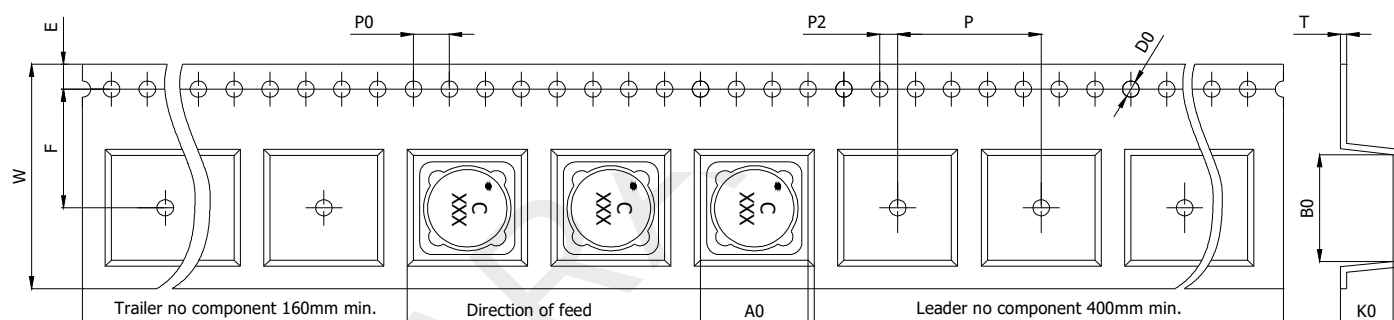
Electrical Characteristic

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.
SC01-12084R7M	4.7±20%	38	32.0	0.22	14.9	3.16	4.47
SC01-12085R6M	5.6±20%	46	25.0	0.23	13.4	2.87	4.06
SC01-12086R8M	6.8±20%	48	24.0	0.22	13.1	2.81	3.98
SC01-12088R2M	8.2±20%	50	18.0	0.34	10.8	2.76	3.90
SC01-1208100M	10±20%	58	16.5	0.34	10.5	2.56	3.62
SC01-1208120M	12±20%	62	14.5	0.36	9.6	2.48	3.50
SC01-1208150M	15±20%	72	11.8	0.41	9.10	2.30	3.25
SC01-1208180M	18±20%	80	10.5	0.37	8.00	2.18	3.08
SC01-1208220M	22±20%	96	9.0	0.41	6.80	1.99	2.81
SC01-1208270M	27±20%	120	8.4	0.43	6.50	1.78	2.52
SC01-1208330M	33±20%	150	7.6	0.56	5.60	1.59	2.25
SC01-1208390M	39±20%	160	6.5	0.64	5.50	1.54	2.18
SC01-1208470M	47±20%	180	6.0	0.70	5.20	1.45	2.05
SC01-1208560M	56±20%	190	5.6	0.76	4.50	1.41	2.00
SC01-1208680M	68±20%	210	5.0	0.88	4.10	1.35	1.90
SC01-1208820M	82±20%	280	4.1	0.85	3.80	1.16	1.65
SC01-1208101M	100±20%	300	3.6	0.90	3.40	1.13	1.59
SC01-1208121K	120±10%	410	3.2	1.31	3.20	0.96	1.36
SC01-1208151K	150±10%	460	3.0	1.46	2.80	0.91	1.29
SC01-1208181K	180±10%	510	2.7	0.93	2.50	0.86	1.22
SC01-1208221K	220±10%	690	2.5	1.54	2.30	0.74	1.05
SC01-1208271K	270±10%	900	2.1	1.17	2.10	0.65	0.92
SC01-1208331K	330±10%	1020	2.0	4.14	1.90	0.61	0.86
SC01-1208391K	390±10%	1120	1.8	1.64	1.70	0.58	0.82
SC01-1208471K	470±10%	1430	1.6	0.25	1.60	0.50	0.70
SC01-1208561K	560±10%	1690	1.5	2.68	1.50	0.47	0.67
SC01-1208681K	680±10%	2290	1.4	2.11	1.30	0.41	0.58
SC01-1208821K	820±10%	2550	1.3	2.39	1.20	0.39	0.55
SC01-1208102K	1000±10%	2830	1.1	4.28	1.10	0.37	0.52

- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Winding to winding isolation 500Vrms.
- 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).

Packaging Specification

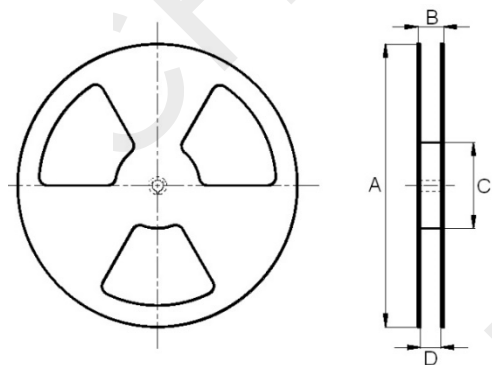
Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
24.0±0.3	16.0±0.1	12.6±0.1	12.6±0.1	8.3±0.1	1.75±0.1	11.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.5±0.05

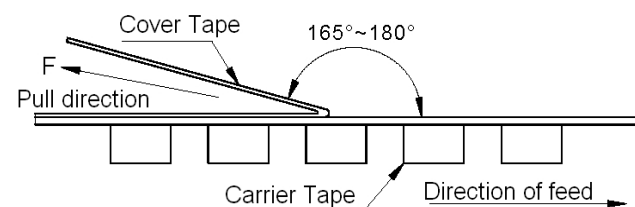
Reel (Unit:mm)

A	B	C	D
Φ330±1.0	28.9Max.	Φ100±1.0	24.5±0.5



Taping Method

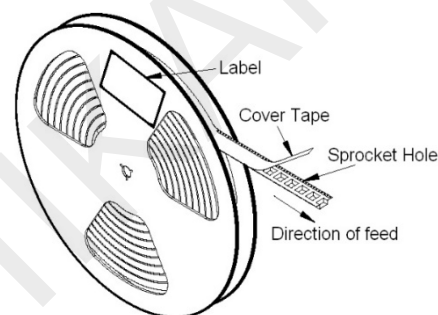
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.



※ Packing is referred to the international standard IEC 60286-3.

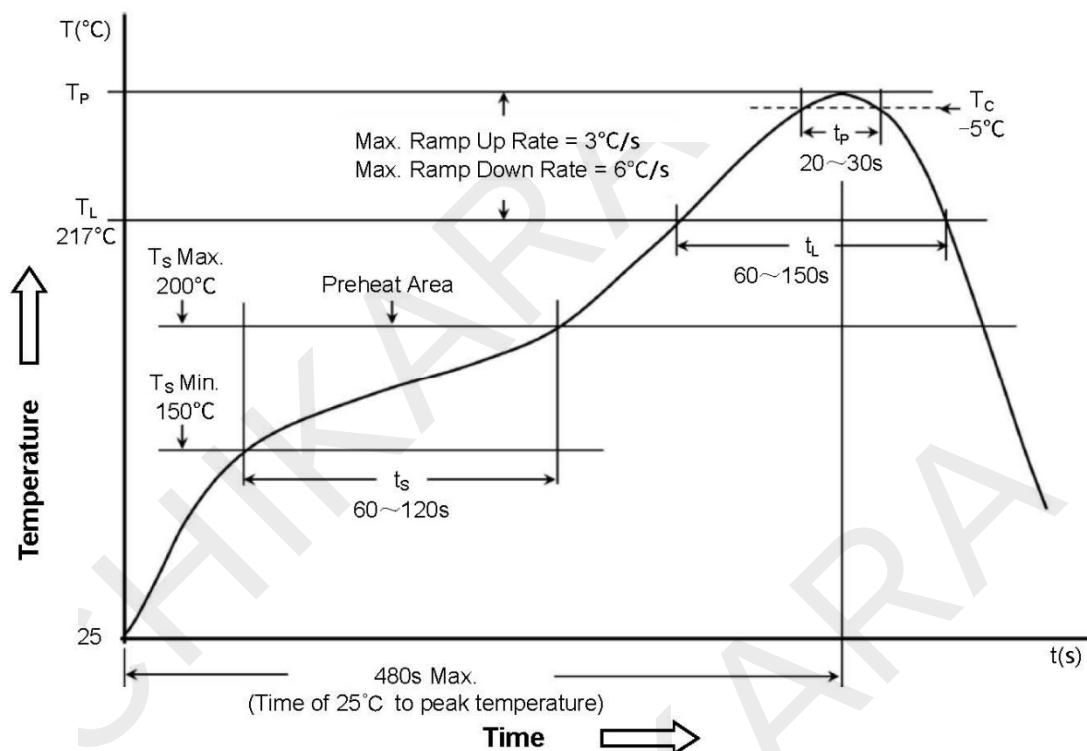
Package Quantity

Parts per reel
500Pcs



Soldering Specification

- Reflow profile for SMT components



- Classification of peak package body temperature (Tp)

	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.