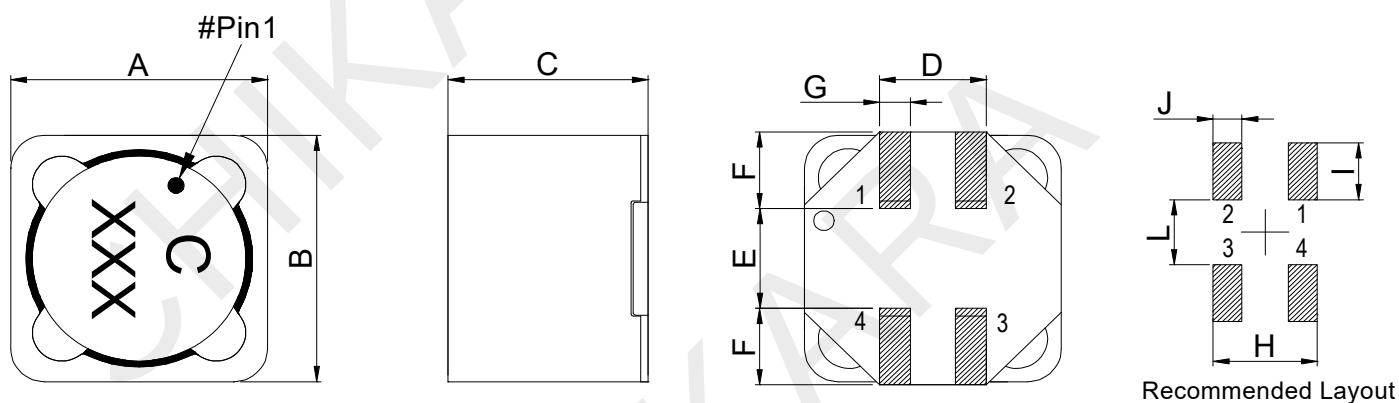


Features

- 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)



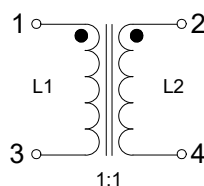
A	B	C	D	E	F	G	H	I	L	J
12.2±0.3	12.2±0.3	6.3Max.	5.0±0.3	5.0Nom.	3.5Nom.	1.7±0.2	5.5	4.0	4.5	2.0

Part Number Description

SC01 - 1206 4R7 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



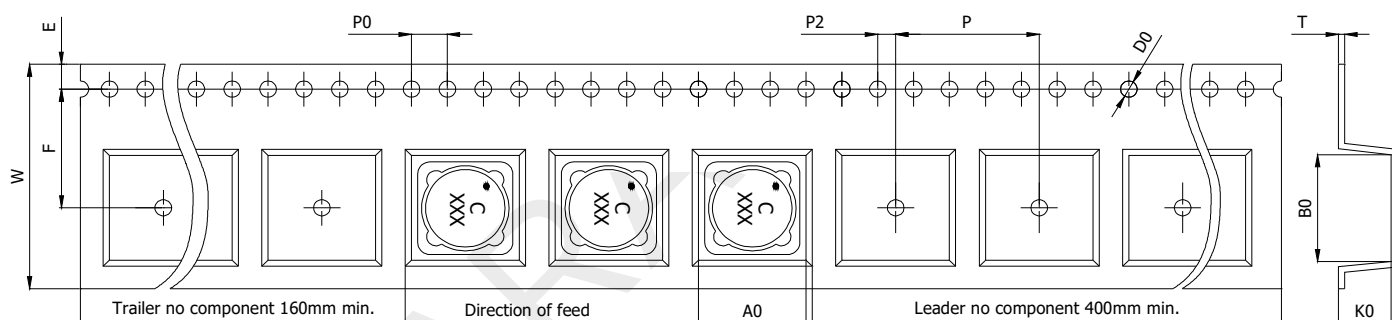
Electrical Characteristic

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.
SC01-12064R7M	4.7±20%	36	32.0	0.20	10.3	3.16	4.47
SC01-12065R6M	5.6±20%	40	31.0	0.20	9.7	3.00	4.24
SC01-12066R8M	6.8±20%	48	28.0	0.24	9.2	2.75	3.88
SC01-12068R2M	8.2±20%	52	25.0	0.25	8.6	2.63	3.72
SC01-1206100M	10±20%	60	22.0	0.26	7.4	2.45	3.46
SC01-1206120M	12±20%	74	21.0	0.28	6.9	2.21	3.12
SC01-1206150M	15±20%	85	17.6	0.32	6.09	2.06	2.92
SC01-1206180M	18±20%	97	17.0	0.40	5.30	1.93	2.73
SC01-1206220M	22±20%	116	15.0	0.68	5.01	1.76	2.49
SC01-1206270M	27±20%	124	13.6	0.50	4.66	1.70	2.41
SC01-1206330M	33±20%	134	12.7	0.65	4.22	1.64	2.32
SC01-1206390M	39±20%	142	11.7	1.09	3.80	1.59	2.25
SC01-1206470M	47±20%	174	8.7	0.80	3.25	1.44	2.03
SC01-1206560M	56±20%	198	7.6	0.75	3.07	1.35	1.91
SC01-1206680M	68±20%	216	6.1	0.57	2.83	1.29	1.83
SC01-1206820M	82±20%	274	5.3	1.52	2.55	1.15	1.62
SC01-1206101M	100±20%	322	5.0	1.41	2.20	1.06	1.50
SC01-1206121K	120±10%	418	4.4	1.34	2.05	0.93	1.31
SC01-1206151K	150±10%	476	4.0	1.52	1.82	0.87	1.23
SC01-1206181K	180±10%	536	3.6	1.80	1.60	0.82	1.16
SC01-1206221K	220±10%	691	3.2	1.60	1.51	0.72	1.02
SC01-1206271K	270±10%	806	2.8	2.23	1.41	0.67	0.95
SC01-1206331K	330±10%	1090	2.5	2.39	1.28	0.57	0.81
SC01-1206391K	390±10%	1200	2.3	2.72	1.16	0.55	0.77
SC01-1206471K	470±10%	1590	2.1	2.89	1.00	0.48	0.67
SC01-1206561K	560±10%	1810	2.0	2.55	0.95	0.45	0.63
SC01-1206681K	680±10%	2060	1.8	5.76	0.88	0.42	0.59
SC01-1206821K	820±10%	2650	1.5	2.86	0.79	0.37	0.52
SC01-1206102K	1000±10%	3060	1.2	4.32	0.69	0.34	0.49

- 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

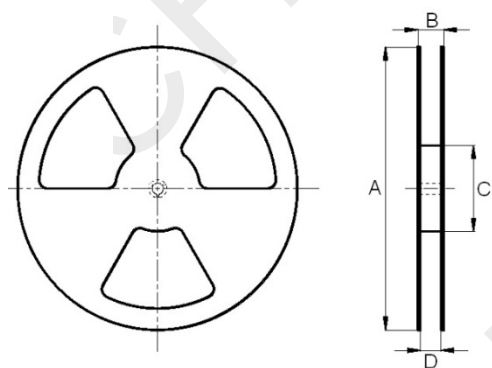
Carrier Tape (Unit:mm)



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	6.4±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

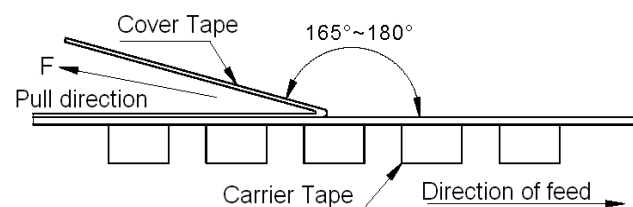
Reel (Unit:mm)

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



Taping Method

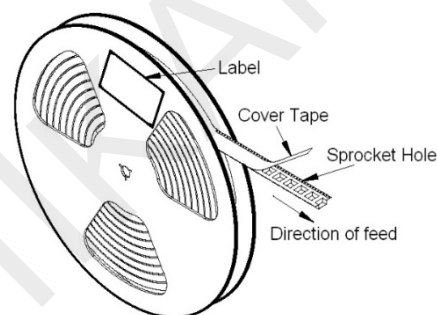
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.



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

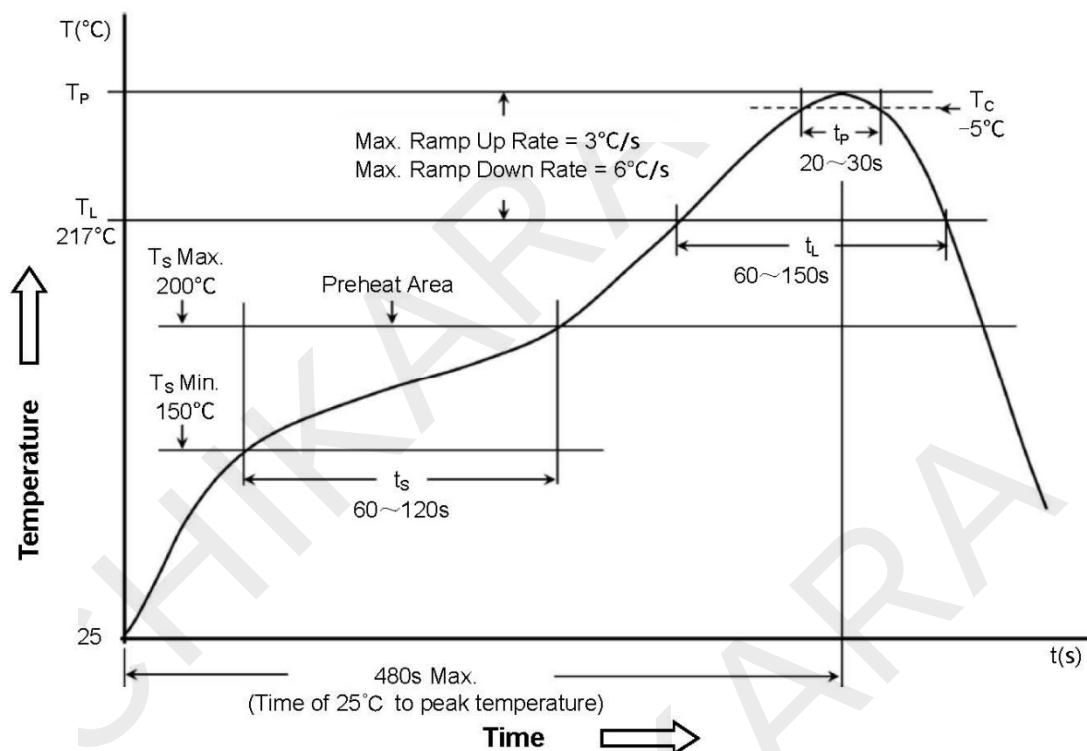
Package Quantity

Parts per reel
500Pcs



Soldering Specification

- Reflow profile for SMT components



- Classification of peak package body temperature (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.