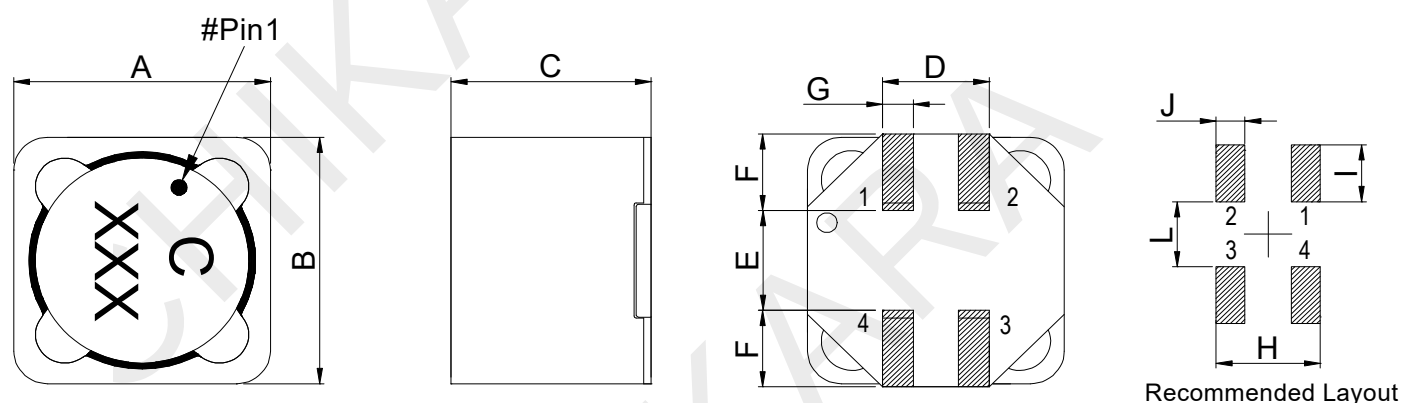


Features

- 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:175pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



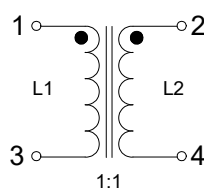
A	B	C	D	E	F	G	H	I	L	J
15.5±0.5	15.5±0.5	14.5Max.	5.6±0.3	8.2Nom.	3.3Nom.	1.9±0.2	6.0	4.2	7.9	2.3

Part Number Description

SC01 - 1514 2R5 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

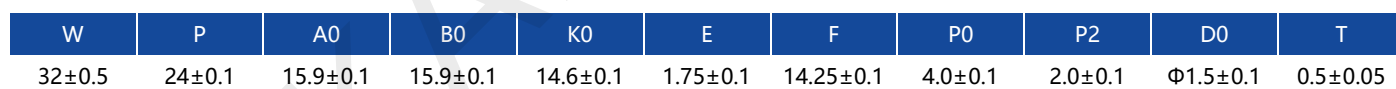


Electrical Characteristic

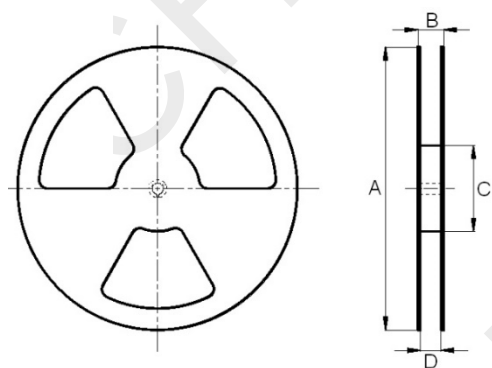
Part Number	Inductance L0(μH)	DCR (mΩ)Max.	SRF (MHz)Typ.	LK (μH)Typ.	Isat (A)Typ.	Irms ¹ (A)Typ.	Irms ² (A)Typ.
SC01-15142R5M	2.5±20%	12	34.0	0.20	30.5	6.00	7.80
SC01-15144R7M	4.7±20%	14	25.0	0.20	23.7	5.40	7.60
SC01-1514100M	10±20%	18	16.5	0.40	16.2	4.80	6.80
SC01-1514120M	12±20%	22	14.5	0.40	14.8	4.70	6.60
SC01-1514150M	15±20%	28	11.0	0.42	13.3	4.10	5.80
SC01-1514220M	22±20%	36	10.0	0.45	11.0	3.60	5.10
SC01-1514270M	27±20%	39	8.50	0.45	9.90	3.50	4.70
SC01-1514330M	33±20%	52	7.20	0.45	9.00	3.00	3.90
SC01-1514470M	47±20%	75	5.60	0.55	7.50	2.60	3.45
SC01-1514680M	68±20%	90	5.20	0.55	6.20	2.20	3.20
SC01-1514101K	100±10%	126	3.80	0.55	5.15	2.00	2.50
SC01-1514221K	220±10%	287	2.30	0.70	3.50	1.30	1.70
SC01-1514331K	330±10%	367	2.10	0.80	2.83	1.20	1.55
SC01-1514471K	470±10%	550	1.65	1.20	2.40	0.92	1.30
SC01-1514102K	1000±10%	1250	1.10	2.00	1.63	0.66	0.77

- 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).

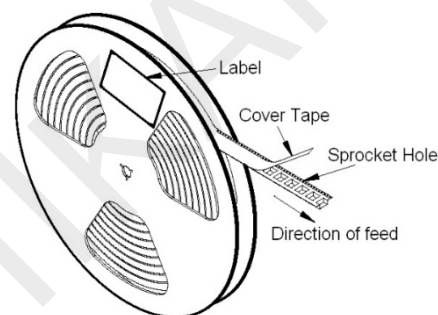
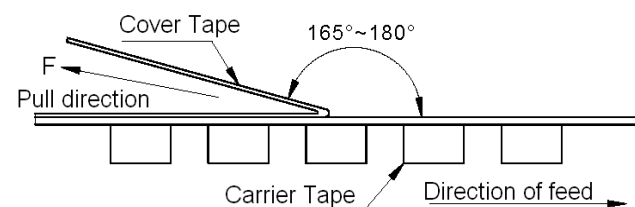
- Carrier Tape (Unit:mm)



A	B	C	D
Φ330±1.0	38.1Max.	Φ100±1.0	33±0.5



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



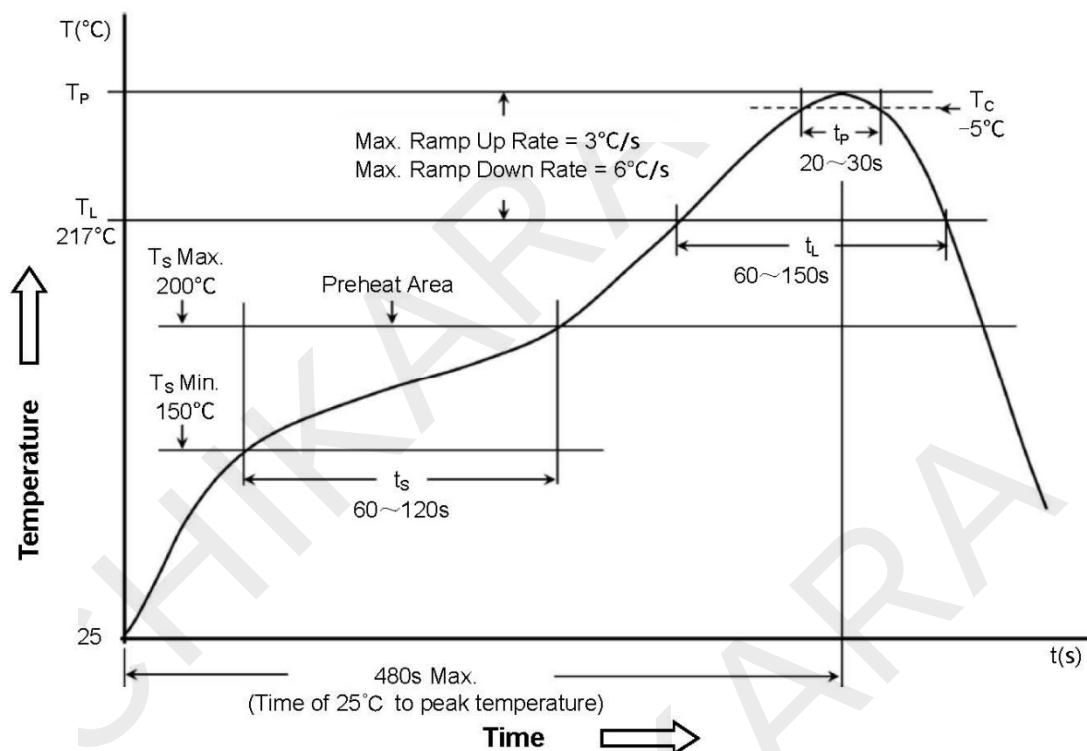
※ Packing is referred to the international standard IEC 60286-3.

Parts per reel

175Pcs

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.