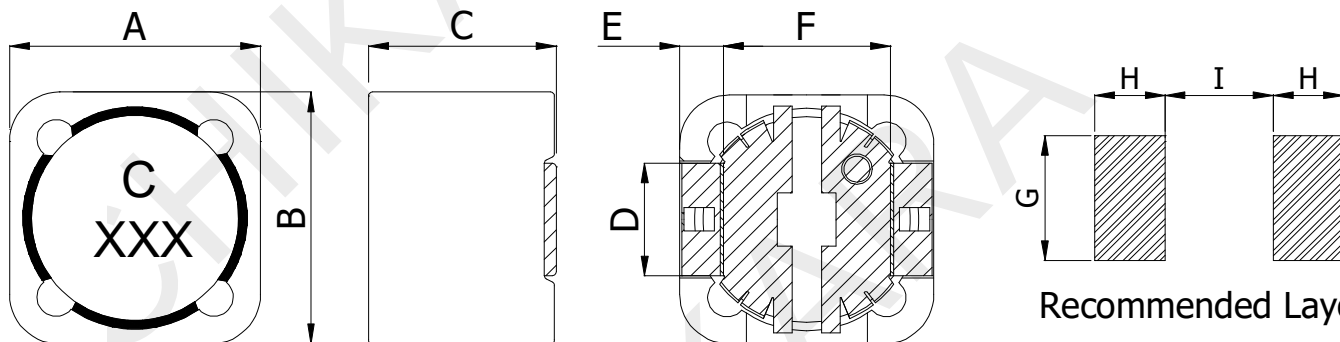


Features

- 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
15±0.5	15±0.5	14.5Max.	4.9±0.2	2.45±0.2	9.9±0.3	5.4	3.0	9.4

Part Number Description

SP12 - 1514 2R5 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



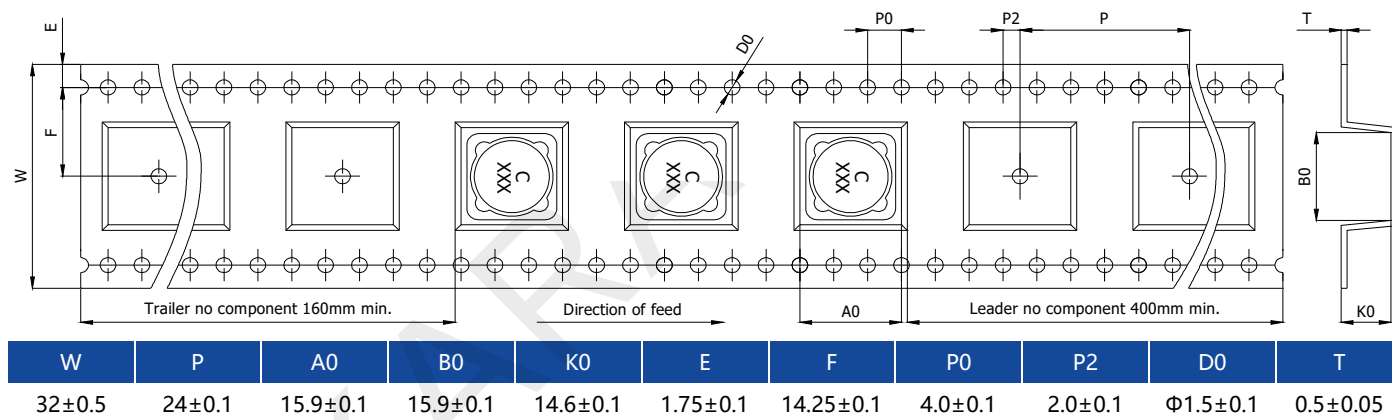
Electrical Characteristic

Part Number	Inductance L0(uH)	DCR (Ω)Typ.	DCR (Ω)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
SP12-15142R5M	2.5±20%	0.005	0.007	34.0	30.5	9.40
SP12-15144R7M	4.7±20%	0.006	0.008	25.0	23.7	8.80
SP12-1514100M	10±20%	0.007	0.009	16.5	16.2	8.30
SP12-1514120M	12±20%	0.009	0.120	14.5	14.8	7.20
SP12-1514150M	15±20%	0.012	0.015	11.0	13.3	6.50
SP12-1514220M	22±20%	0.015	0.018	10.0	11.0	5.90
SP12-1514270M	27±20%	0.017	0.022	8.50	9.90	5.30
SP12-1514330M	33±20%	0.022	0.026	7.20	9.00	4.90
SP12-1514470M	47±20%	0.032	0.038	5.60	7.50	3.90
SP12-1514680M	68±20%	0.039	0.045	5.20	6.20	3.70
SP12-1514101K	100±10%	0.058	0.064	3.80	5.15	3.10
SP12-1514221K	220±10%	0.130	0.152	2.30	3.50	2.20
SP12-1514331K	330±10%	0.67	0.185	2.10	2.83	1.85
SP12-1514471K	470±10%	0.250	0.275	1.65	2.40	1.70
SP12-1514102K	1000±10%	0.560	0.655	1.10	1.63	0.80

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

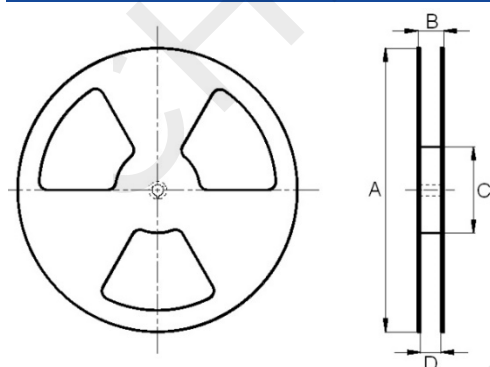
Packaging Specification

Carrier Tape (Unit:mm)



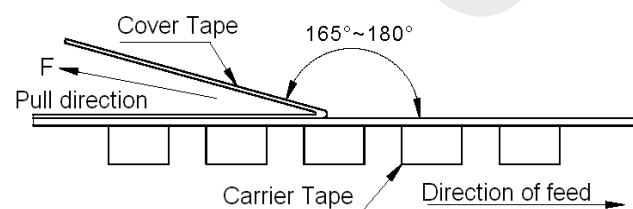
Reel (Unit:mm)

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



Taping Method

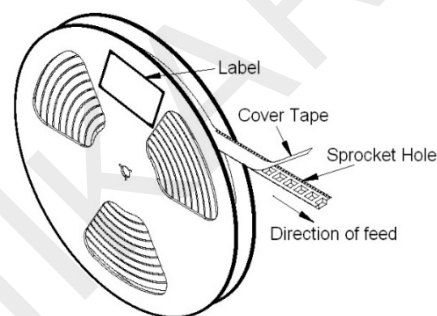
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.



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

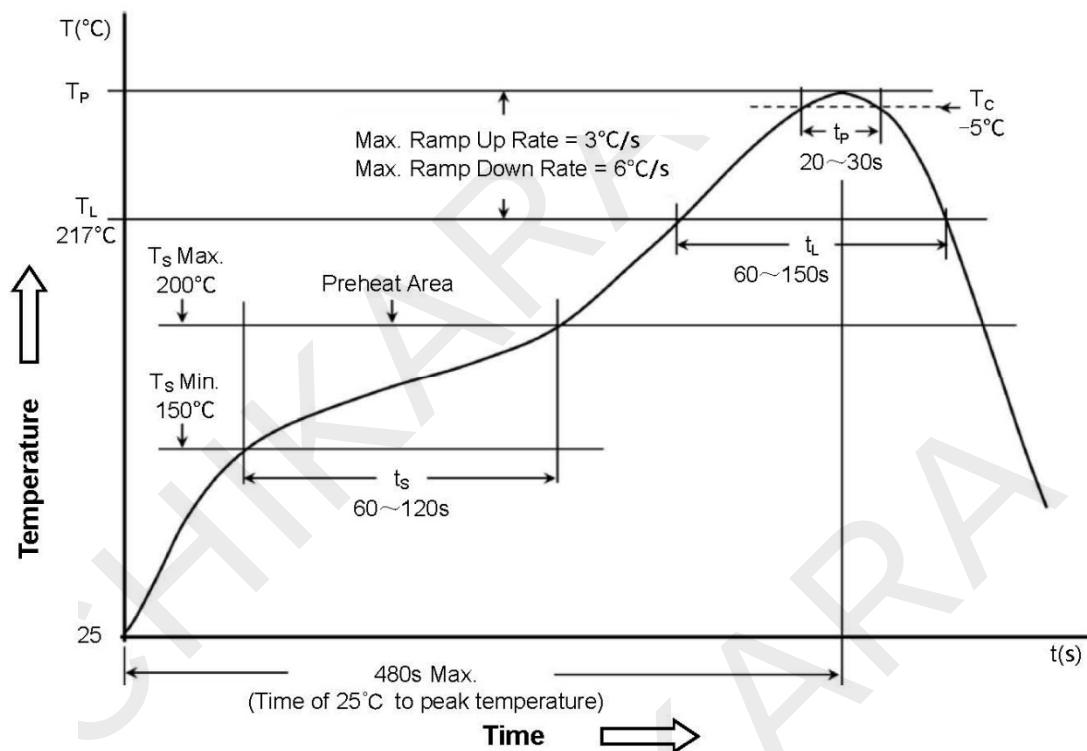
Package Quantity

Parts per reel
175Pcs



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.