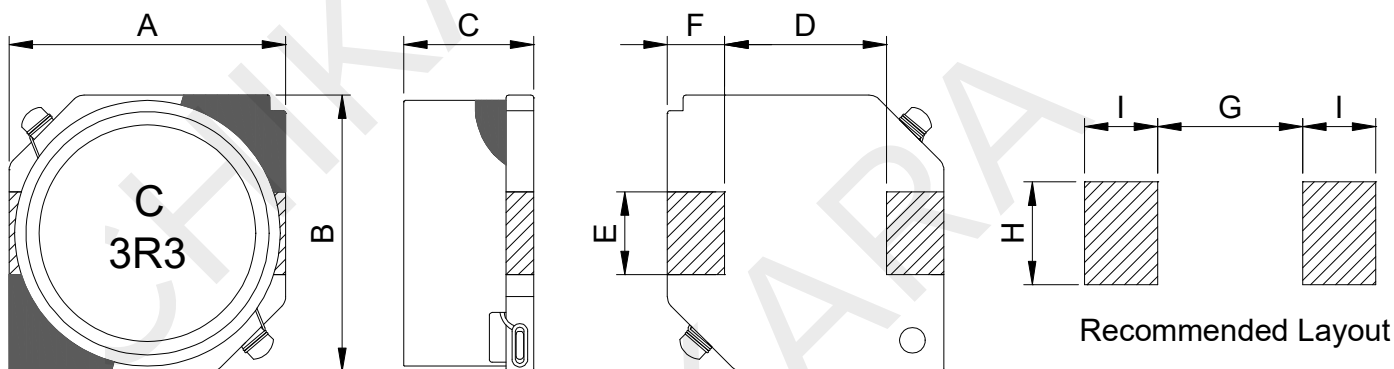


Features

- 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:750pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
10.1±0.3	10.1±0.3	4.5±0.3	6.0±0.3	3.0±0.2	2.05±0.2	5.6	3.2	2.5

Part Number Description

SP10 - 101045 3R3 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

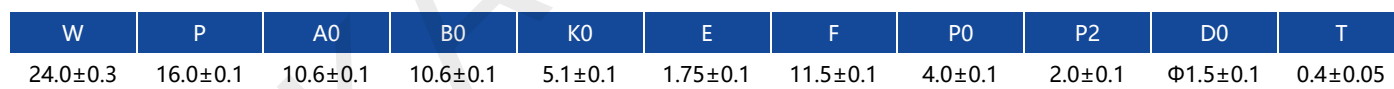


Electrical Characteristic

Part Number	Inductance L0(uH)	DCR (Ω)	Isat (A)Max.	Irms (A)Max.
SP10-1010453R3M	3.3±20%	0.016±20%	4.90	3.70
SP10-1010455R6M	5.6±20%	0.022±20%	3.80	3.20
SP10-101045100M	10±20%	0.036±20%	3.00	2.50
SP10-101045150M	15±20%	0.047±20%	2.40	2.20
SP10-101045220M	22±20%	0.059±20%	2.10	1.90
SP10-101045330M	33±20%	0.082±20%	1.60	1.70
SP10-101045470M	47±20%	0.100±20%	1.40	1.50
SP10-101045680M	68±20%	0.140±20%	1.20	1.30
SP10-101045101M	100±20%	0.200±20%	1.00	1.10
SP10-101045151K	150±10%	0.350±20%	0.79	0.81
SP10-101045221K	220±10%	0.470±20%	0.65	0.70
SP10-101045331K	330±10%	0.680±20%	0.54	0.58
SP10-101045471K	470±10%	1.030±20%	0.47	0.47
SP10-101045681K	680±10%	1.600±20%	0.38	0.38
SP10-101045102K	1000±10%	2.800±20%	0.32	0.29
SP10-101045152K	1500±10%	3.400±20%	0.22	0.26

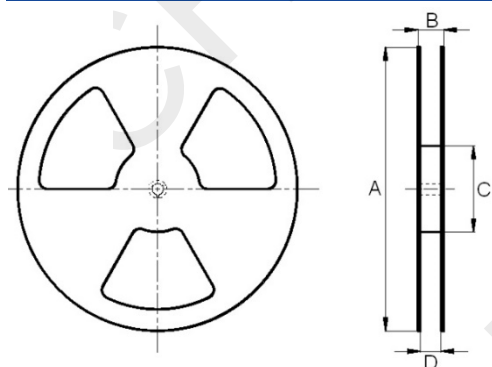
- Test frequency and voltage:1KHz,0.5Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 10%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

- Carrier Tape (Unit:mm)



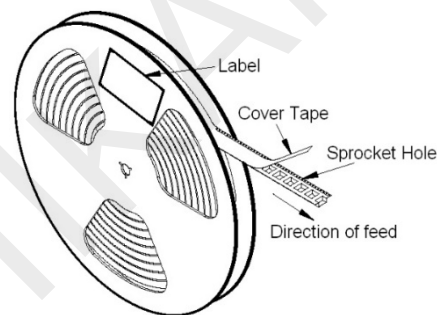
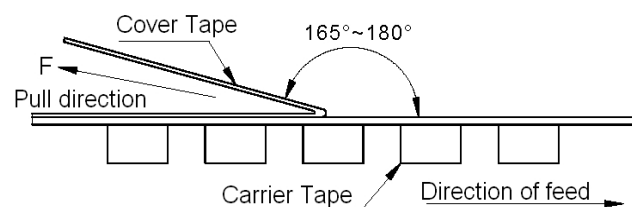
- Reel (Unit:mm)

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

750Pcs

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.