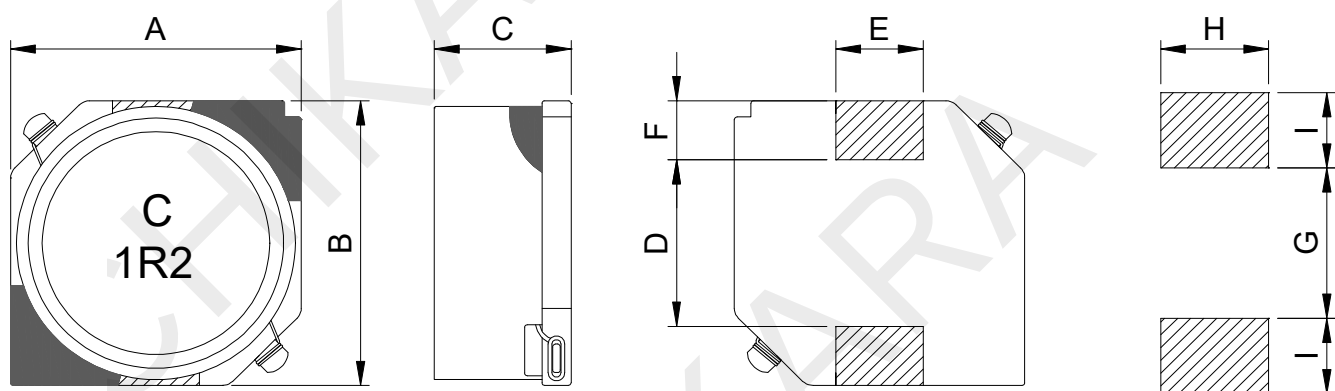


Features

- 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)



Recommended Layout

A	B	C	D	E	F	G	H	I
12.5±0.3	12.5±0.3	7.5±0.35	8.5±0.3	3.0±0.2	2.0±0.2	8.5	3.2	2.6

Part Number Description

SP10 - 125075 1R2 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

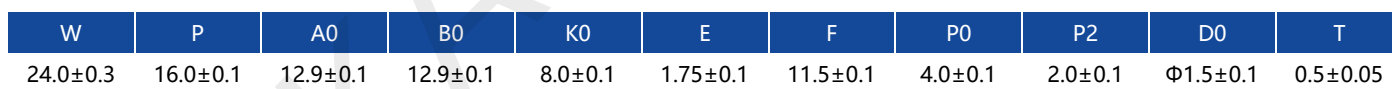


Electrical Characteristic

Part Number	Inductance L0(uH)	DCR (mΩ)	Isat (A)Max.	Irms (A)Max.
SP10-1250751R2N	1.2±30%	6.90±20%	13.0	8.20
SP10-1250752R7N	2.7±30%	9.40±20%	10.0	7.00
SP10-1250753R9N	3.9±30%	10.4±20%	9.00	6.70
SP10-1250755R6N	5.6±30%	11.6±20%	7.80	6.30
SP10-1250756R8M	6.8±20%	13.1±20%	7.20	5.90
SP10-125075100M	10±20%	15.6±20%	5.50	5.40
SP10-125075150M	15±20%	18.4±20%	4.70	5.00
SP10-125075220M	22±20%	26.3±20%	4.00	4.00
SP10-125075330M	33±20%	39.5±20%	3.20	3.40
SP10-125075470M	47±20%	52.8±20%	2.70	3.00
SP10-125075680M	68±20%	77.8±20%	2.00	2.40
SP10-125075101K	100±10%	125±20%	1.90	1.90
SP10-125075151K	150±10%	175±20%	1.50	1.60
SP10-125075221K	220±10%	258±20%	1.30	1.30

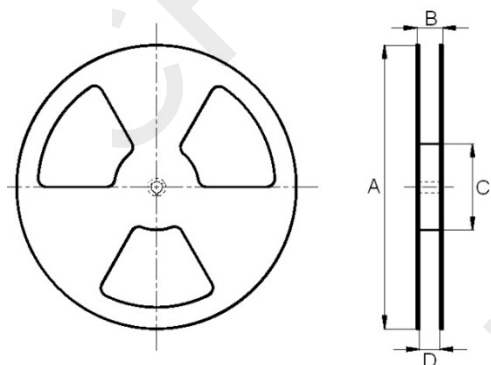
- Test frequency and voltage:1KHz,0.5Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 10%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

- Carrier Tape (Unit:mm)



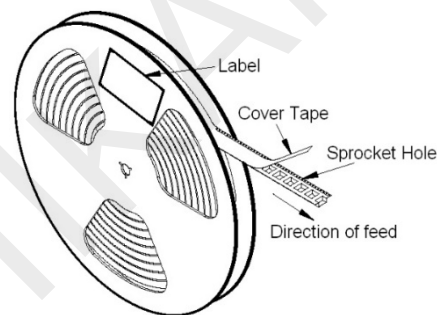
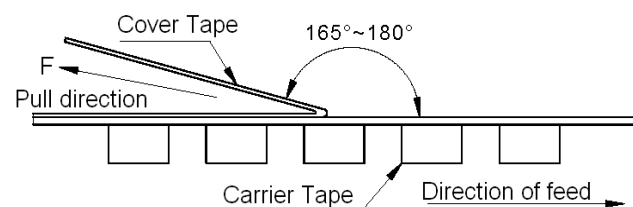
- Reel (Unit:mm)

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

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.