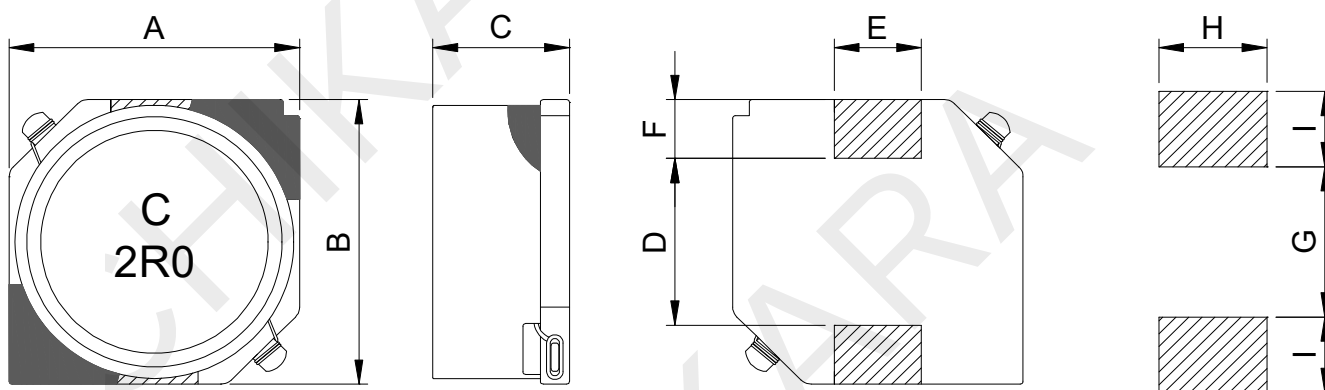


Features

- 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	6.5±0.35	8.5±0.3	3.0±0.2	2.0±0.2	8.5	3.2	2.6

Part Number Description

SP10 - 125065 2R0 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



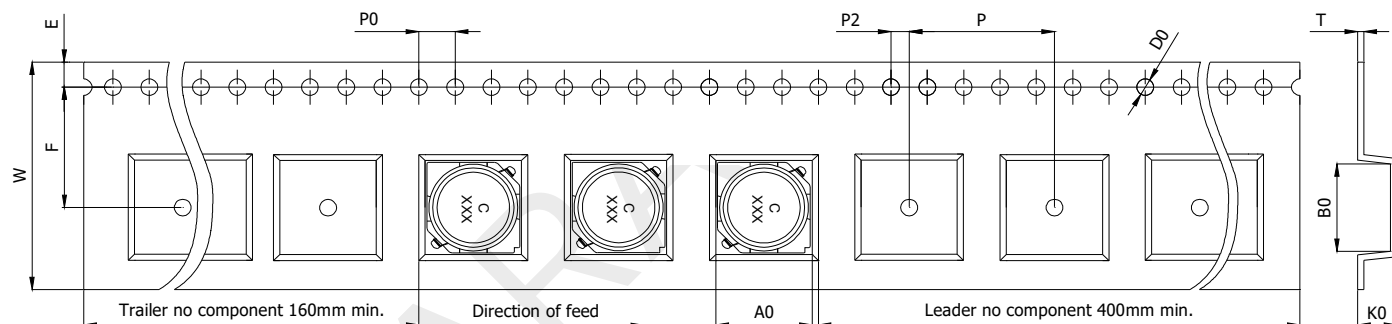
Electrical Characteristic

Part Number	Inductance L0(uH)	DCR (mΩ)	Isat (A)Max.	Irms (A)Max.
SP10-1250652R0N	2.0±30%	11.7±30%	10.0	6.20
SP10-1250654R2N	4.2±30%	15.0±20%	7.30	5.50
SP10-1250657R0N	7.0±30%	17.7±20%	5.70	5.00
SP10-125065100M	10±20%	20.2±20%	5.00	4.80
SP10-125065150M	15±20%	23.7±20%	4.20	4.40
SP10-125065220M	22±20%	31.6±20%	3.50	3.80
SP10-125065330M	33±20%	40.6±20%	2.80	3.40
SP10-125065470M	47±20%	57.8±20%	2.40	2.80
SP10-125065680M	68±20%	78.7±20%	2.00	2.40
SP10-125065101K	100±10%	123±20%	1.60	1.90
SP10-125065221K	220±10%	273±20%	1.00	1.20

- 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.

Packaging Specification

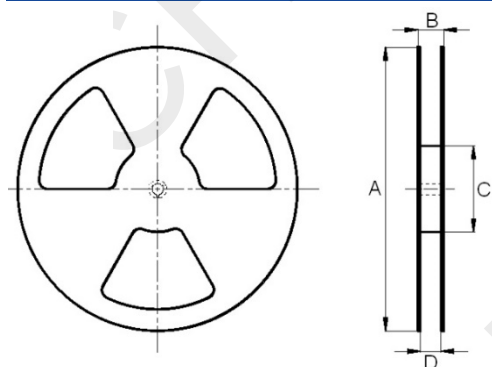
■ Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
24.0±0.3	16.0±0.1	12.9±0.1	12.9±0.1	7.1±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

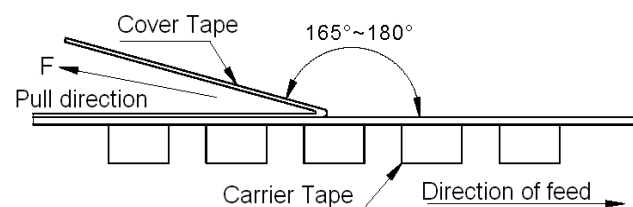
■ Reel (Unit:mm)

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

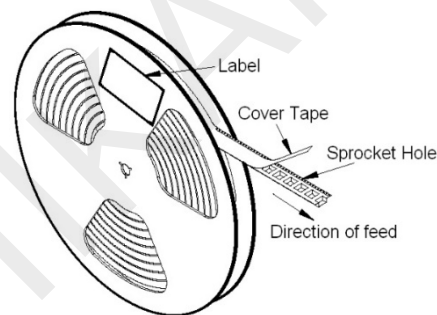


■ Taping Method

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 (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.