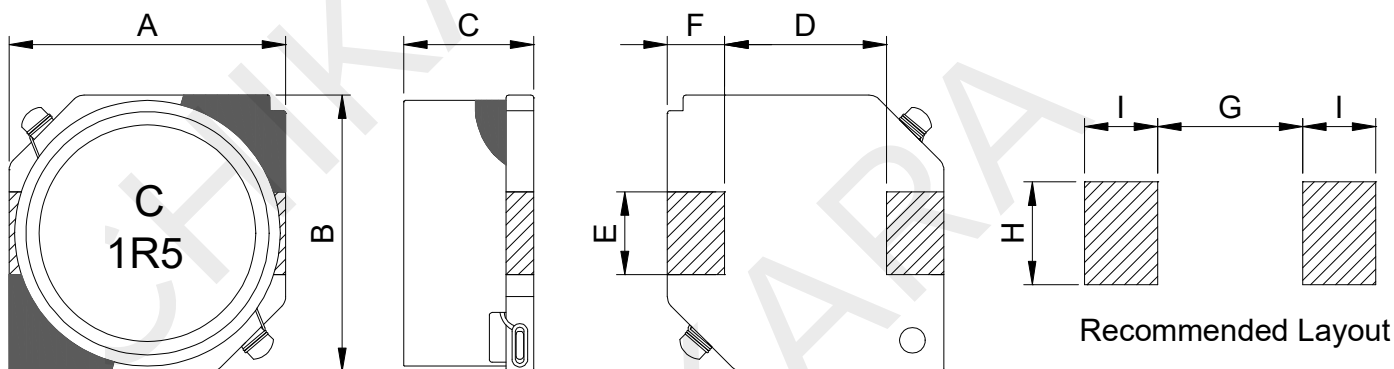


Features

- 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)



A	B	C	D	E	F	G	H	I
10.1±0.3	10.1±0.3	6.5±0.3	6.0±0.3	3.0±0.2	2.05±0.2	5.6	3.2	2.5

Part Number Description

SP10 - 101065 1R5 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



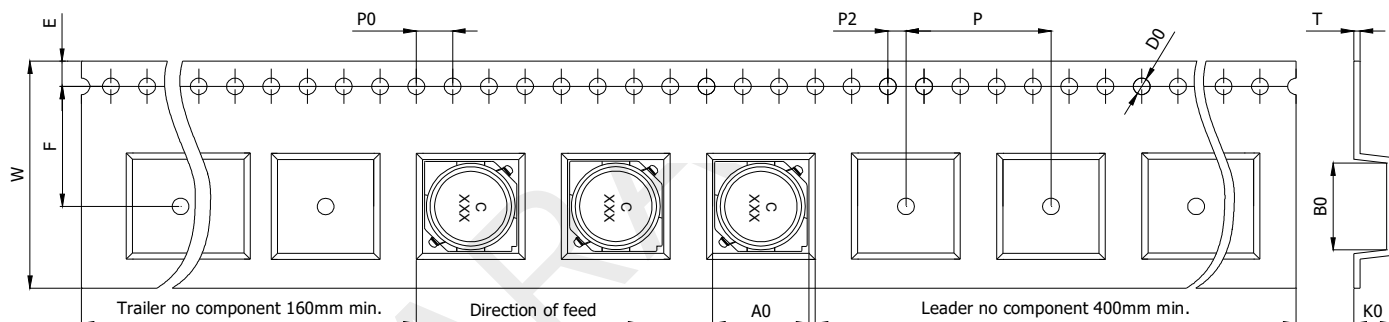
Electrical Characteristic

Part Number	Inductance L0(uH)	DCR (Ω)	Isat (A)Max.	Irms (A)Max.
SP10-1010651R5M	1.5±20%	0.007±30%	10.7	6.80
SP10-1010652R2M	2.2±20%	0.009±30%	8.90	6.30
SP10-1010653R3M	3.3±20%	0.010±30%	7.80	5.80
SP10-1010654R7M	4.7±20%	0.012±30%	6.10	4.70
SP10-1010656R8M	6.8±20%	0.014±30%	4.60	4.30
SP10-101065100M	10±20%	0.019±30%	4.10	3.80
SP10-101065150M	15±20%	0.027±30%	3.10	3.10
SP10-101065220M	22±20%	0.045±30%	2.70	2.40

- 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

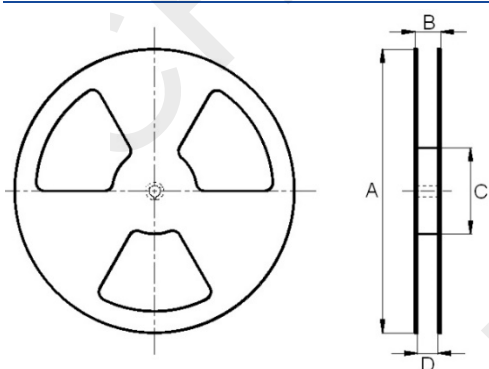
■ Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
24.0±0.3	16.0±0.1	10.6±0.1	10.6±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	0.4±0.05

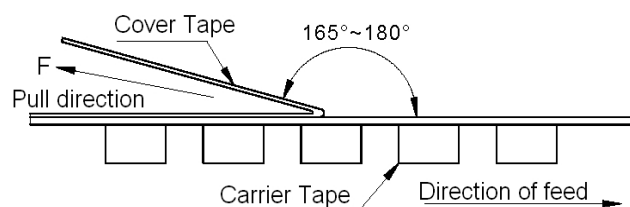
■ Reel (Unit:mm)

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



■ Taping Method

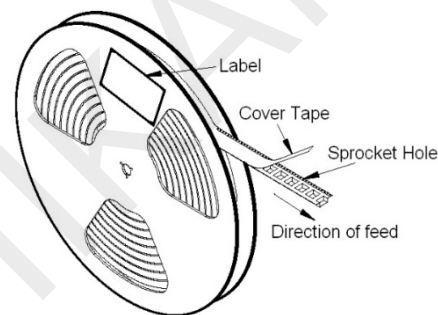
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.



※ 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.