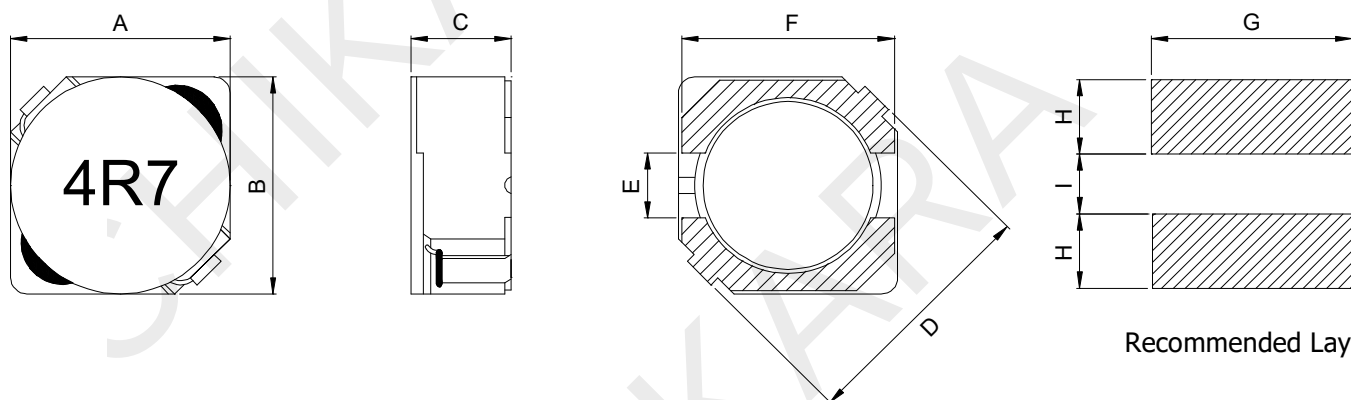


Features

- 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:2000pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
5.7±0.5	5.7±0.5	2.1Max.	8.2Max.	2.0±0.3	5.5±0.3	6.3	2.15	2.0

Part Number Description

SP18 - 0602 4R7 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

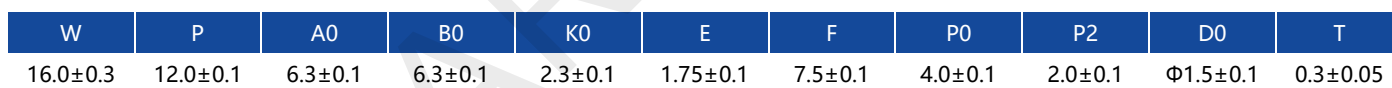


Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (mΩ)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
SP18-06024R7M	4.7±20%	65	65.0	1.82	2.30
SP18-06025R6M	5.6±20%	83	60.0	1.60	2.10
SP18-06026R8M	6.8±20%	100	48.0	1.50	2.00
SP18-06028R2M	8.2±20%	120	44.0	1.36	1.80
SP18-0602100M	10±20%	150	42.0	1.20	1.70
SP18-0602120M	12±20%	176	40.0	1.14	1.60
SP18-0602150M	15±20%	210	38.0	1.04	1.50
SP18-0602180M	18±20%	280	35.0	0.97	1.40
SP18-0602220M	22±20%	310	32.0	0.82	1.30
SP18-0602270M	27±20%	350	26.0	0.77	1.20
SP18-0602330M	33±20%	460	22.0	0.74	1.10
SP18-0602390M	39±20%	540	19.0	0.64	1.00
SP18-0602470M	47±20%	680	18.0	0.60	0.90
SP18-0602560M	56±20%	740	17.0	0.54	0.80
SP18-0602680M	68±20%	1000	16.0	0.50	0.70
SP18-0602820M	82±20%	1200	15.0	0.46	0.60
SP18-0602101M	100±20%	1370	12.5	0.40	0.50

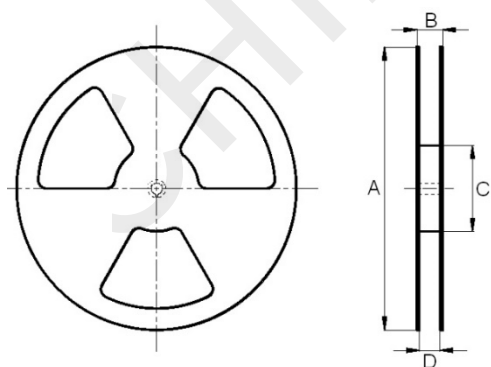
- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

- Carrier Tape (Unit:mm)



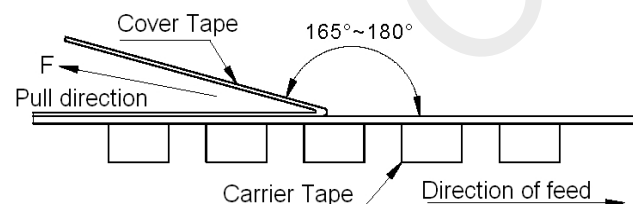
- Reel (Unit:mm)

A	B	C	D
$\Phi 330 \pm 1.0$	22.1Max.	$\Phi 100 \pm 1.0$	16.5 ± 0.5

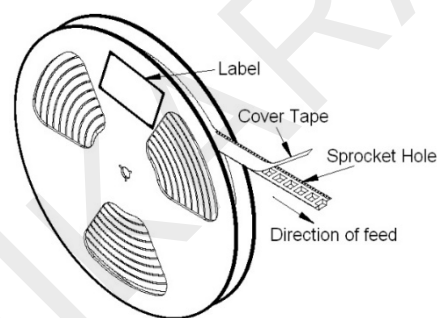


- Taping Method

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
2000Pcs

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.