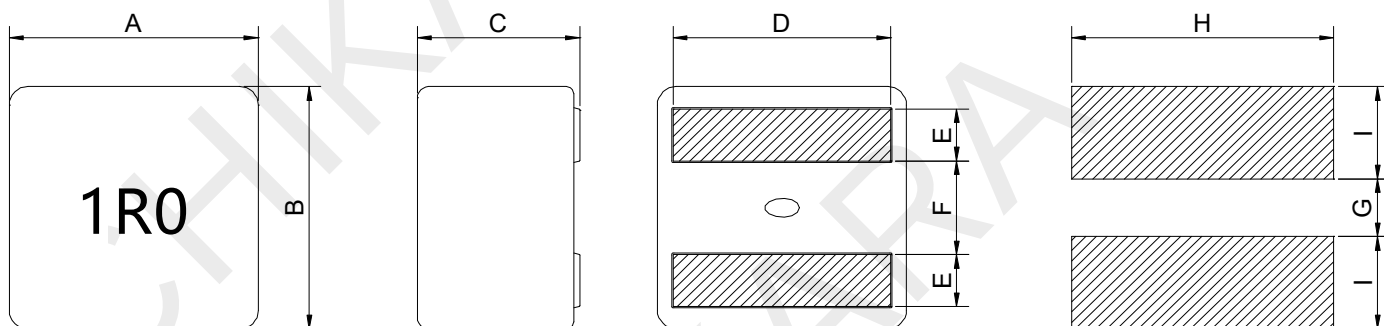


Features

- Compact design, Flat wire
- Storage temperature range:-55°C to + 125°C
- Operating temperature range:-55°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)



Recommended Layout

A	B	C	D	E	F	G	H	I
6.6±0.3	6.4±0.3	5.8±0.3	5.4±0.3	1.5±0.3	2.6±0.3	2.3	5.8	1.8

Part Number Description

SP16 - 060060 A 1R0 M
① ② ③ ④ ⑤

①	Type
②	Dimensions
③	Special code
④	Inductance value
⑤	Tolerance code

Electrical Schematic

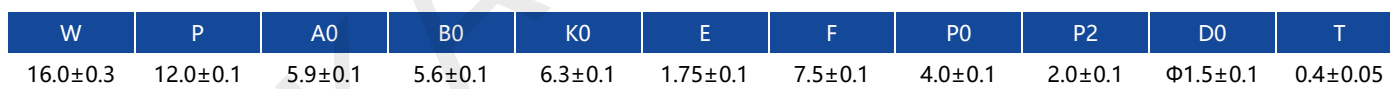


Electrical Characteristic

Part Number	Inductance L0(uH)	DCR		SRF (MHz)Typ.	Isat		Irms	
		(mΩ)Max.	(mΩ)Typ.		(A)Max.	(A)Typ.	(A)Max.	(A)Typ.
SP16-060060A1R0M	1.0±20%	4.40	3.90	60	19.0	24.0	16.0	21.0
SP16-060060A1R5M	1.5±20%	6.10	5.40	45	15.0	20.0	13.5	17.5
SP16-060060A2R2M	2.2±20%	8.10	7.20	36	12.5	16.5	11.0	14.0
SP16-060060A3R3M	3.3±20%	12.30	10.90	30	11.0	13.0	9.0	12.0
SP16-060060A4R7M	4.7±20%	14.50	13.10	28	9.3	10.5	8.5	11.0
SP16-060060A5R6M	5.6±20%	15.90	14.50	25	8.7	9.9	7.6	10.0
SP16-060060A6R8M	6.8±20%	20.80	18.90	21	8.3	9.2	7.0	9.0
SP16-060060A8R2M	8.2±20%	26.40	23.50	19	8.0	8.4	6.0	8.0
SP16-060060A100M	10±20%	29.82	26.50	17	6.8	7.6	5.0	7.0
SP16-060060A150M	15±20%	43.75	38.70	14	5.0	5.8	4.5	6.0
SP16-060060A220M	22±20%	60.63	53.60	9	4.8	5.6	3.8	5.0

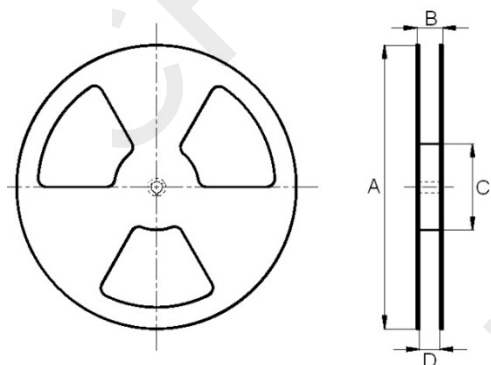
- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Absolute maximum voltage: 40Vdc.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.
- Heat rated current (Irms) is tested on a typical PCB and apply a constant current in still air. The temperature rise is dependent on the application system condition including PCB PAD pattern, trace width and thickness and adjacent components etc. It' s suggested to verify the temperature rise of the component under the real operation application conditions.

- Carrier Tape (Unit:mm)



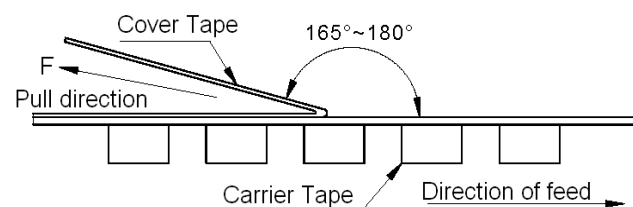
- Reel (Unit:mm)

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

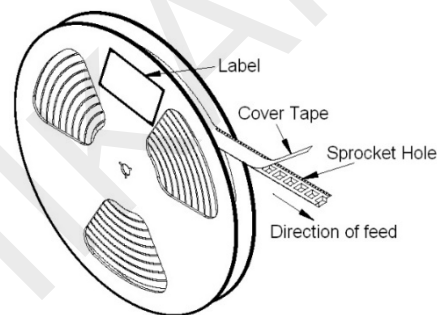


- Taping Method

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
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.