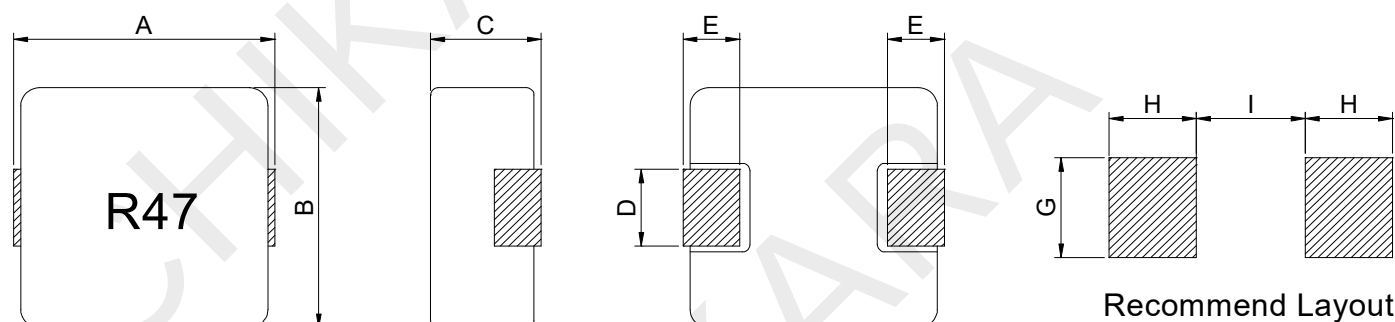


Features

- High energy storage and very low resistance
- 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:1000pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	G	H	I
7.3±0.4	6.8±0.3	4.0Max.	3.0±0.3	1.6±0.5	3.5	2.35	3.7

Part Number Description

SP15 - 070040 R47 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

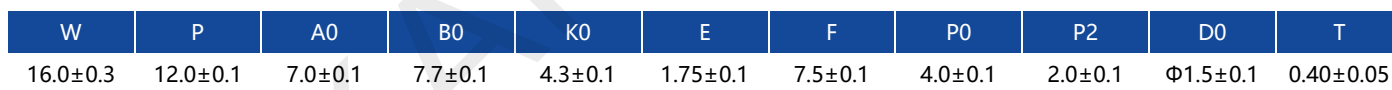


Electrical Characteristic

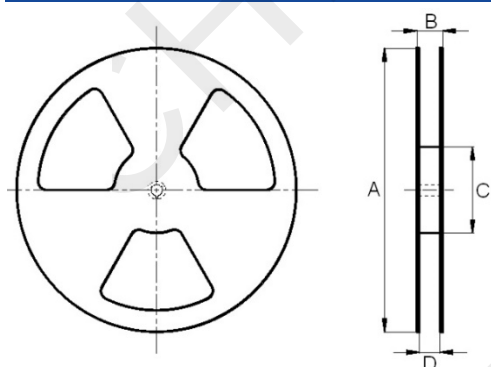
Part Number	Inductance L0(μH)	DCR (mΩ)Typ.	DCR (mΩ)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
SP15-070040R47M	0.47±20%	3.00	3.40	93	28.0	23.0
SP15-070040R56M	0.56±20%	3.80	4.30	82	26.0	20.0
SP15-070040R68M	0.68±20%	4.10	4.50	70	24.0	16.0
SP15-070040R10M	1.0±20%	6.80	8.00	48	22.0	14.0
SP15-070040R15M	1.5±20%	10.0	12.0	32	20.0	12.0
SP15-070040R22M	2.2±20%	11.5	14.0	27	14.0	9.00
SP15-070040R33M	3.3±20%	17.5	23.0	25	12.0	7.50
SP15-070040R47M	4.7±20%	28.0	32.5	23	11.0	6.00
SP15-070040R68M	5.6±20%	33.0	38.0	19	9.00	5.00
SP15-070040R10M	6.8±20%	44.0	50.0	14	8.50	4.50
SP15-070040R22M	8.2±20%	55.0	64.0	12	8.00	4.50
SP15-070040R33M	10±20%	64.0	72.0	11	7.00	4.00
SP15-070040R47M	15±20%	80.0	90.0	9	3.50	3.00
SP15-070040R68M	22±20%	120	145	7	3.50	2.50
SP15-070040R100M	33±20%	180	210	6	3.20	1.80

- Test frequency and voltage:100KHz,1Vrms.
- All test data referenced to 25°C ambient.
- Absolute maximum voltage: 50Vdc.
- 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.

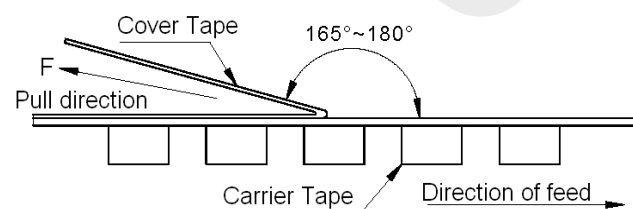
- Carrier Tape (Unit:mm)



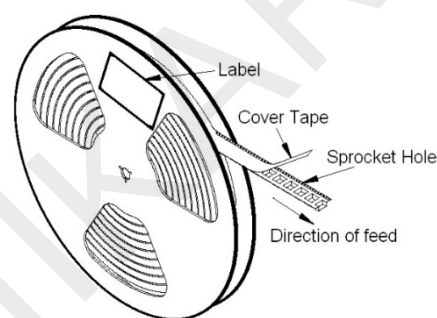
A	B	C	D
$\Phi 330 \pm 1.0$	22.1Max.	$\Phi 100 \pm 1.0$	16.5 ± 0.5



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.



Parts per reel
1000Pcs

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.