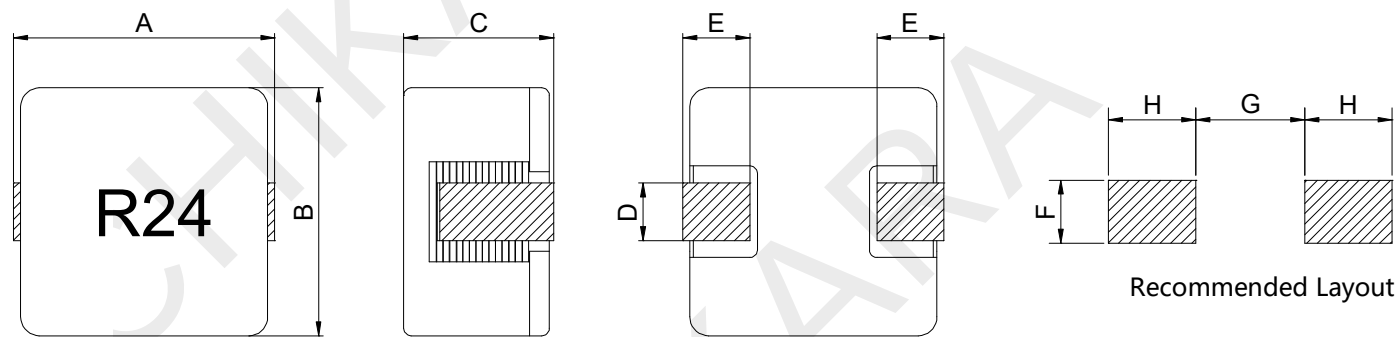


Features

- Magnetically shielded construction, 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:1000pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H
7.0±0.3	6.9±0.3	4.8±0.3	1.2±0.3	1.8±0.3	2.2	2.4	2.7

Part Number Description

SP17 - 070050 R24 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

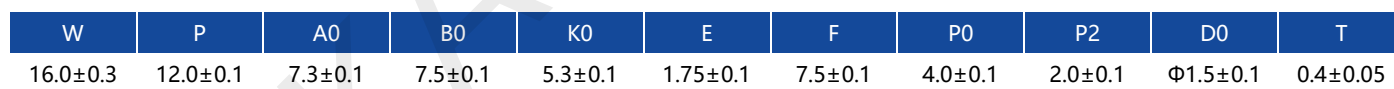


Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (mΩ)	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
SP17-070050R24M	0.24±20%	1.0±10%	320	28.0	20.0
SP17-070050R47M	0.47±20%	1.4±10%	235	20.0	18.0
SP17-070050R76M	0.76±20%	2.3±10%	200	15.0	15.5
SP17-070050R1M	1.1±20%	3.2±10%	135	13.0	15.0
SP17-070050R5M	1.5±20%	4.3±10%	110	11.0	13.0
SP17-070050R0M	2.0±20%	5.9±10%	68	9.0	11.5
SP17-070050R3M	3.3±20%	9.0±10%	65	8.0	9.0
SP17-070050R9M	4.9±20%	14.5±10%	56	6.5	6.5
SP17-070050R5M	6.5±20%	21.5±10%	50	6.0	6.0
SP17-070050R6M	7.6±20%	28.2±10%	48	4.8	4.2
SP17-070050R8M	8.5±20%	30.5±10%	44	4.5	4.0
SP17-070050R10M	10±20%	33.0±10%	40	4.0	3.5

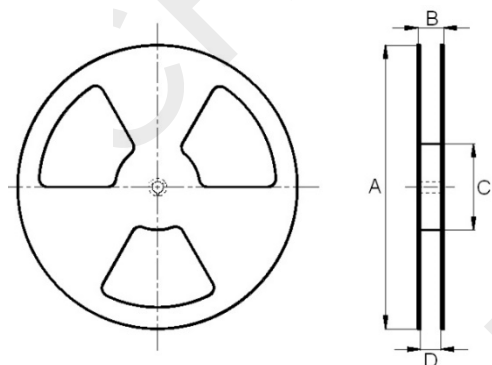
- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.
- Heat rated current (Irms) is tested on a typical PCB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



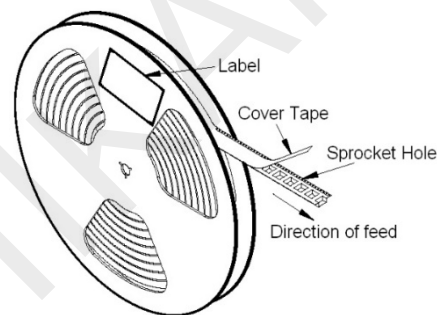
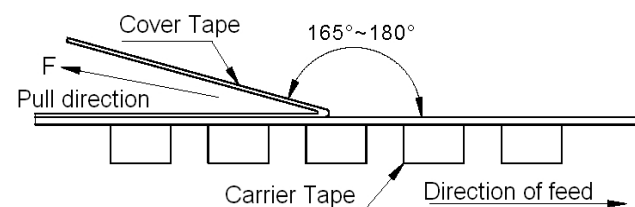
- Reel (Unit:mm)

A	B	C	D
Φ330±1.0	22.1Max.	Φ100±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

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.