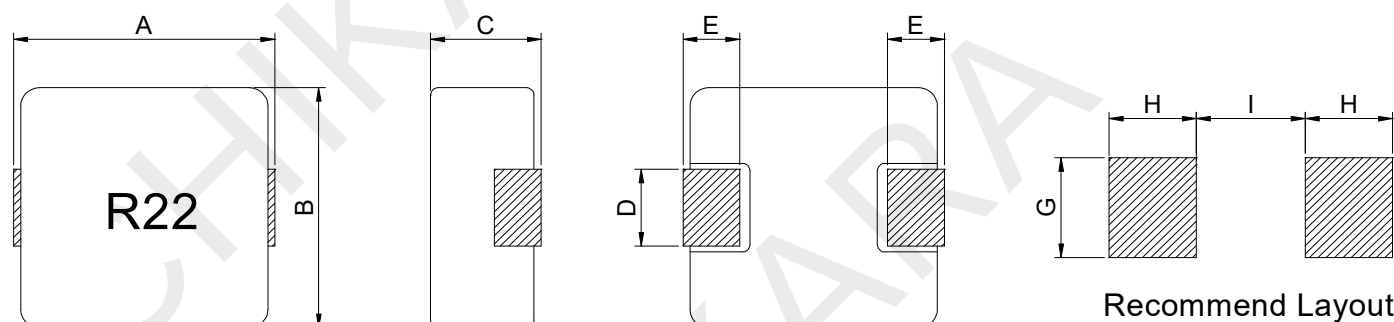


Features

- 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:500pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	G	H	I
11.1±0.5	10±0.3	5.0Max.	3.0±0.5	2.0±0.5	4.1	4.1	5.4

Part Number Description

SP15 - 115050 R22 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

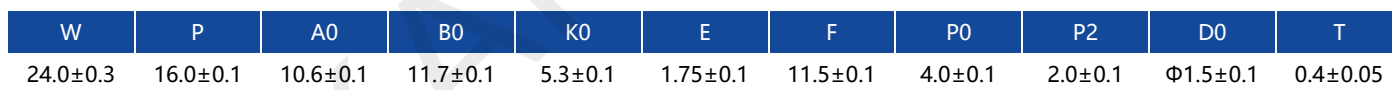


Electrical Characteristic

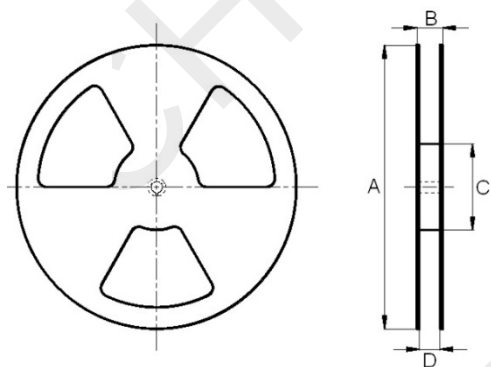
Part Number	Inductance L0(μH)	DCR (mΩ)Typ.	DCR (mΩ)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
SP15-115050R22M	0.22±20%	0.45	0.50	155	70.0	45.0
SP15-115050R47M	0.47±20%	1.20	1.50	85	45.0	28.0
SP15-115050R56M	0.56±20%	1.30	1.50	80	43.0	26.5
SP15-1150501R0M	1.0±20%	2.80	3.60	50	30.0	22.0
SP15-1150501R5M	1.5±20%	3.50	4.20	43	27.0	19.0
SP15-1150502R2M	2.2±20%	5.40	6.00	32	24.0	16.0
SP15-1150503R3M	3.3±20%	9.00	10.5	25	22.0	14.0
SP15-1150504R7M	4.7±20%	10.0	12.5	20	19.0	13.0
SP15-1150505R6M	5.6±20%	14.0	16.8	16	16.0	10.0
SP15-1150506R8M	6.8±20%	16.5	21.0	15	15.0	9.5
SP15-1150508R2M	8.2±20%	18.5	24.0	14	14.5	9.0
SP15-115050100M	10±20%	25.0	30.0	13	13.5	8.0
SP15-115050150M	15±20%	37.0	45.0	10	9.5	5.5
SP15-115050220M	22±20%	50.0	60.0	9	9.0	5.0
SP15-115050330M	33±20%	80.0	92.0	8	7.5	4.3
SP15-115050470M	47±20%	125	145	7	6.5	3.8

- 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.

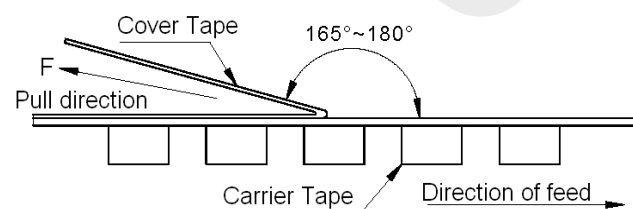
- Carrier Tape (Unit:mm)



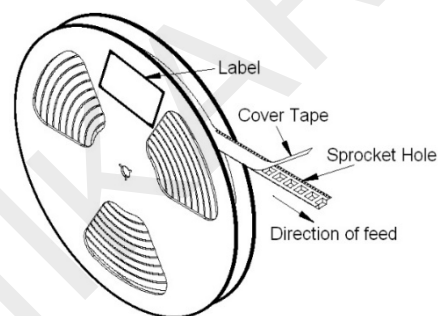
A	B	C	D
$\Phi 330 \pm 1.0$	28.9Max.	$\Phi 100 \pm 1.0$	24.5 ± 0.5



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
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.