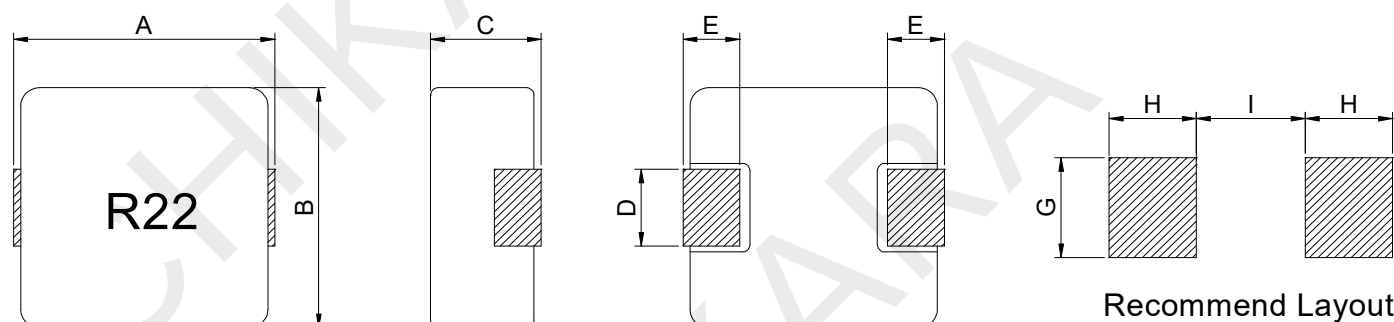


Features

- 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:800pcs. 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	3.0Max.	3.0±0.5	2.0±0.5	4.1	4.1	5.4

Part Number Description

SP15 - 115030 R22 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

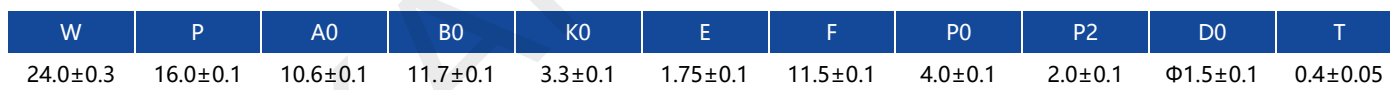


Electrical Characteristic

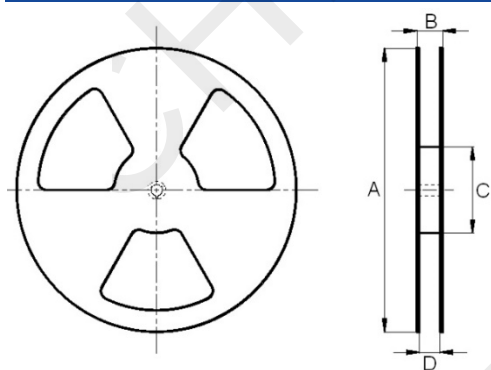
Part Number	Inductance L0(uH)	DCR (mΩ)Typ.	DCR (mΩ)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
SP15-115030R22M	0.22±20%	1.10	1.40	140	55.0	30.0
SP15-115030R33M	0.33±20%	1.20	1.50	110	47.0	25.0
SP15-115030R36M	0.36±20%	1.30	1.60	102	40.0	23.0
SP15-115030R47M	0.47±20%	2.10	2.60	90	33.0	20.0
SP15-115030R56M	0.56±20%	2.60	3.10	65	24.0	16.0
SP15-115030R82M	0.82±20%	3.90	4.50	50	22.0	15.5
SP15-1150301R0M	1.0±20%	4.60	6.00	43	20.0	15.0
SP15-1150301R5M	1.5±20%	6.50	7.50	36	19.0	13.0
SP15-1150302R2M	2.2±20%	8.10	9.50	25	16.0	12.0
SP15-1150303R3M	3.3±20%	14.6	16.0	20	14.0	9.0
SP15-1150304R7M	4.7±20%	20.5	22.5	15	13.0	7.5
SP15-1150305R6M	5.6±20%	28.0	32.5	13	12.0	7.0
SP15-1150306R8M	6.8±20%	30.2	35.0	12	9.5	6.5
SP15-1150308R2M	8.2±20%	42.0	48.0	11	8.5	6.0
SP15-115030100M	10±20%	50.0	55.0	10	8.0	5.0

- 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.

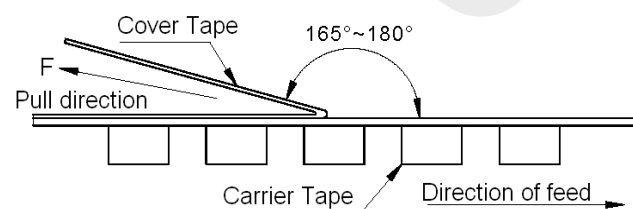
- Carrier Tape (Unit:mm)



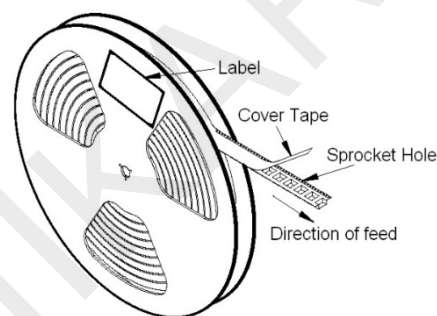
A	B	C	D
$\Phi 330 \pm 1.0$	28.9Max.	$\Phi 100 \pm 1.0$	24.5 ± 0.5



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
800Pcs

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.