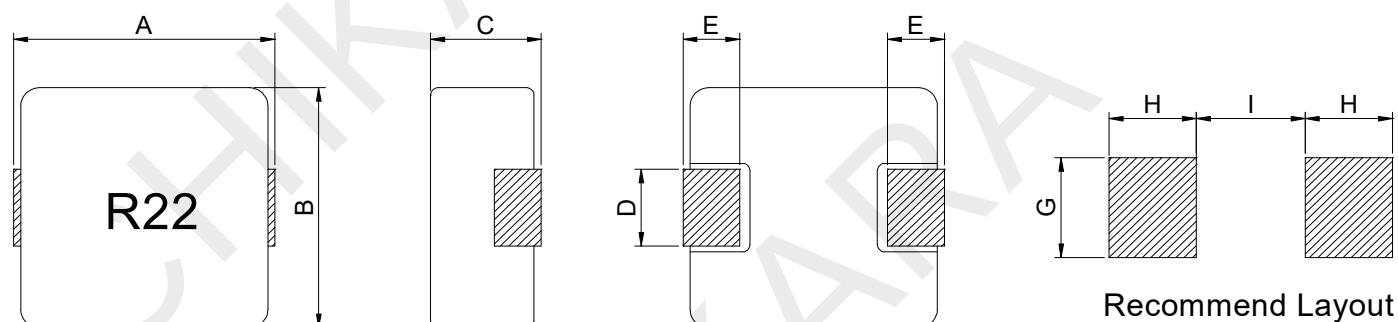


Features

- 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:400pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	G	H	I
13.5±0.5	12.6±0.4	6.0Max.	See table	2.5±0.5	6.0	3.25	8.0

Part Number Description

SP15 - 138060 R22 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



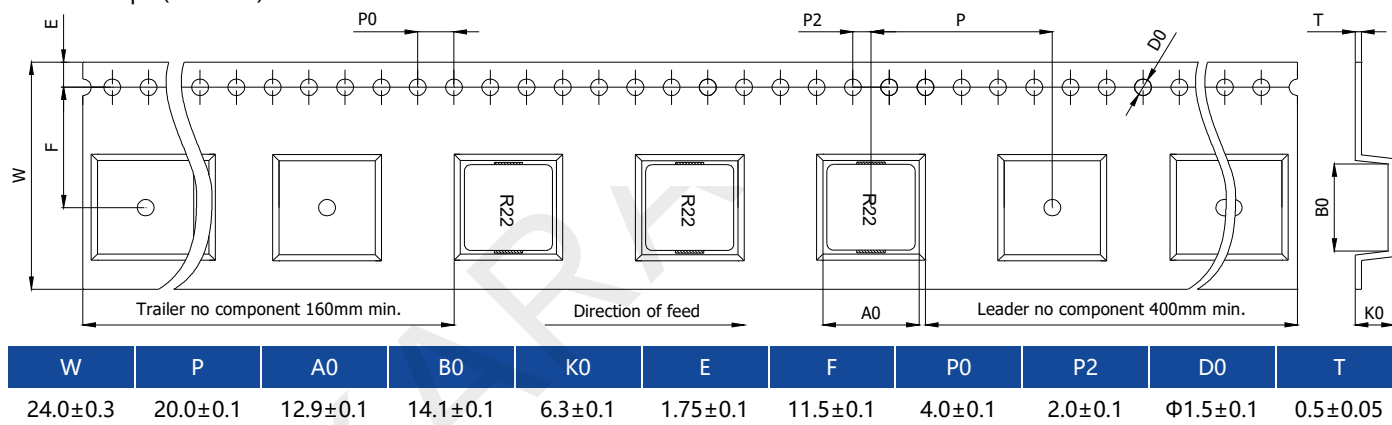
Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (mΩ)Typ.	DCR (mΩ)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.	D (mm)±0.5
SP15-138060R22M	0.22±20%	0.50	0.65	110	120.0	55.0	3.3
SP15-138060R36M	0.36±20%	0.72	0.90	80	80.0	42.0	3.3
SP15-138060R47M	0.47±20%	0.92	1.30	65	64.0	38.0	3.3
SP15-138060R56M	0.56±20%	1.15	1.50	55	60.0	35.0	3.3
SP15-138060R68M	0.68±20%	1.33	1.70	52	57.0	33.0	3.3
SP15-138060R82M	0.82±20%	1.50	1.90	48	55.0	31.0	3.3
SP15-1380601R0M	1.0±20%	1.90	2.40	45	53.0	29.0	3.3
SP15-1380601R5M	1.5±20%	2.70	3.50	34	50.0	26.0	3.3
SP15-1380602R2M	2.2±20%	4.00	4.70	24	43.0	21.0	4.7
SP15-1380603R3M	3.3±20%	5.80	7.10	22	35.0	17.0	4.7
SP15-1380604R7M	4.7±20%	9.50	11.5	16	30.0	16.0	4.7
SP15-1380605R6M	5.6±20%	10.8	12.6	14	28.0	15.5	4.7
SP15-1380606R8M	6.8±20%	12.0	13.8	12	25.0	15.0	4.7
SP15-1380608R2M	8.2±20%	13.6	16.0	10	23.0	12.0	4.7
SP15-138060100M	10±20%	18.0	20.7	9	21.0	11.0	4.7
SP15-138060150M	15±20%	25.0	29.0	8	16.0	9.0	4.7
SP15-138060180M	18±20%	30.0	35.0	8	15.0	8.5	4.7
SP15-138060220M	22±20%	34.0	39.5	6	14.0	8.0	4.7
SP15-138060330M	33±20%	65.0	75.0	5	12.0	6.0	4.7
SP15-138060470M	47±20%	80.0	90.0	4	11.0	5.5	4.7
SP15-138060680M	68±20%	120	140	4	9.0	5.0	4.7
SP15-138060820M	82±20%	142	161	3	8.5	4.5	4.7
SP15-138060101M	100±20%	165	200	3	8.0	4.0	4.7

- 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.

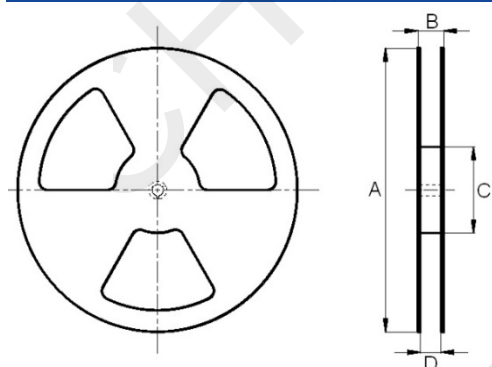
Packaging Specification

■ Carrier Tape (Unit:mm)



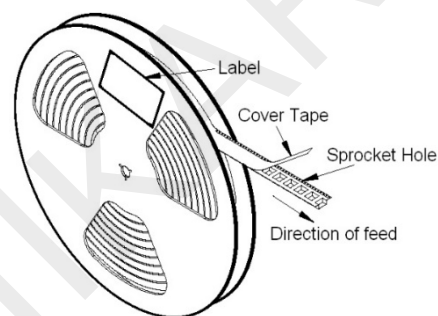
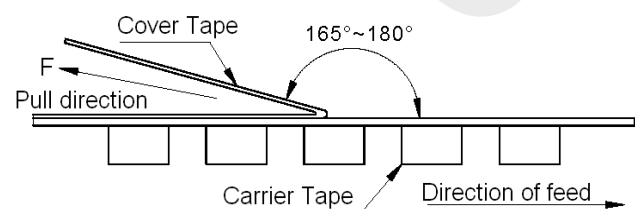
■ Reel (Unit:mm)

A	B	C	D
Φ330±1.0	28.9Max.	Φ100±1.0	24.5±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
400Pcs

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.