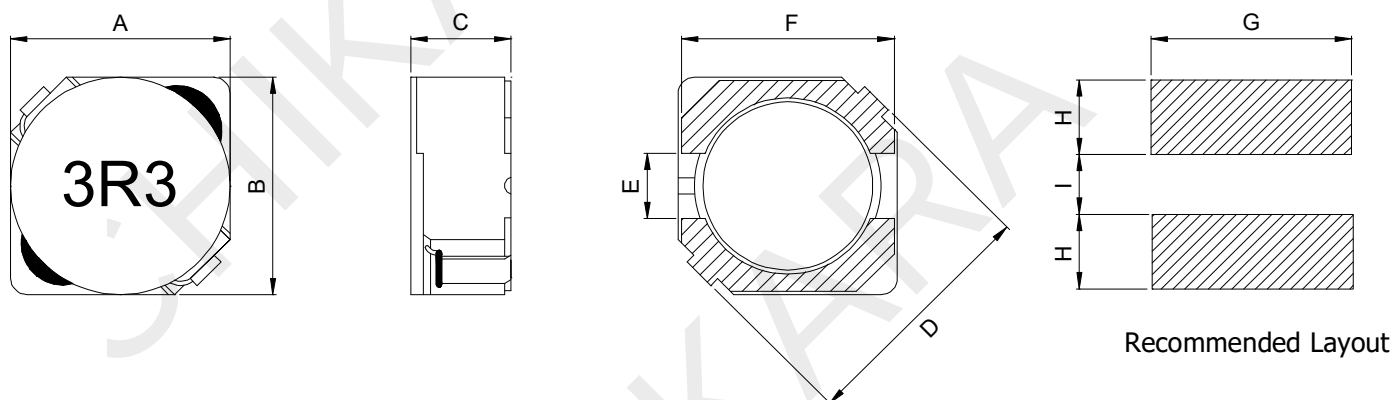


Features

- Magnetically shielded construction
- Storage temperature range:-40°C to + 125°C
- Operating temperature range:-40°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	I
6.8±0.5	6.8±0.5	4.1Max.	9.5Max.	2.0±0.3	6.5±0.3	7.3	2.65	2.0

Part Number Description

SP18 - 0704 3R3 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

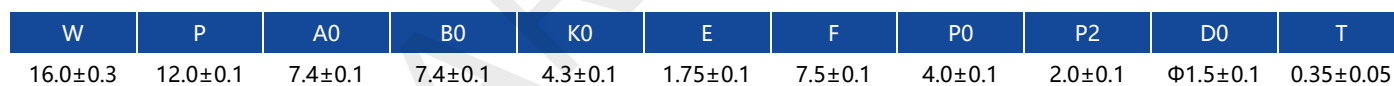


Electrical Characteristic

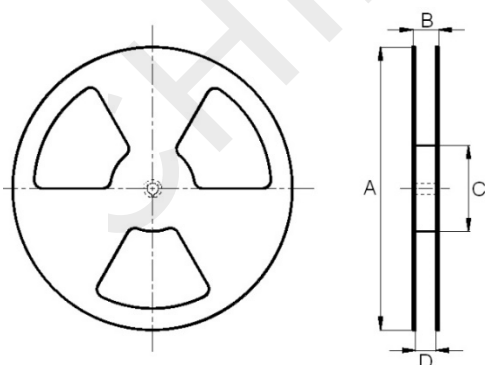
Part Number	Inductance L0(μH)	DCR (mΩ)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
SP18-07043R3M	3.3±20%	18	85	3.72	5.00
SP18-07045R0M	5.0±20%	23	49	3.16	4.70
SP18-07046R2M	6.2±20%	27	42	2.98	4.30
SP18-07047R4M	7.4±20%	31	35	2.56	4.10
SP18-07048R7M	8.7±20%	34	33	2.36	3.90
SP18-0704100M	10±20%	38	32	2.10	3.80
SP18-0704120M	12±20%	50	27	1.92	3.30
SP18-0704150M	15±20%	55	26	1.78	3.00
SP18-0704180M	18±20%	75	25	1.62	2.65
SP18-0704220M	22±20%	82	22	1.42	2.35
SP18-0704270M	27±20%	109	19	1.22	2.10
SP18-0704330M	33±20%	124	17	1.16	1.95
SP18-0704390M	39±20%	130	15	1.12	1.90
SP18-0704470M	47±20%	155	14	1.00	1.85
SP18-0704560M	56±20%	202	11	0.87	1.60
SP18-0704680M	68±20%	250	9.6	0.80	1.35
SP18-0704820M	82±20%	290	8.5	0.72	1.25
SP18-0704101M	100±20%	310	7.2	0.67	1.15
SP18-0704151M	150±20%	475	6.0	0.58	1.14
SP18-0704221M	220±20%	710	5.0	0.47	0.78
SP18-0704471M	470±20%	1450	3.0	0.32	0.57
SP18-0704681M	680±20%	1980	2.5	0.29	0.56

- 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.

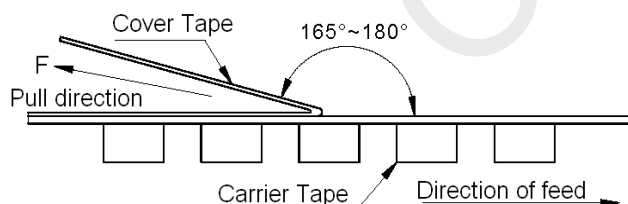
- Carrier Tape (Unit:mm)



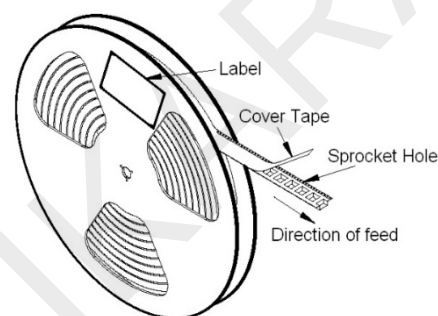
A	B	C	D
$\Phi 330 \pm 1.0$	22.1Max.	$\Phi 100 \pm 1.0$	16.5 ± 0.5



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.



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.