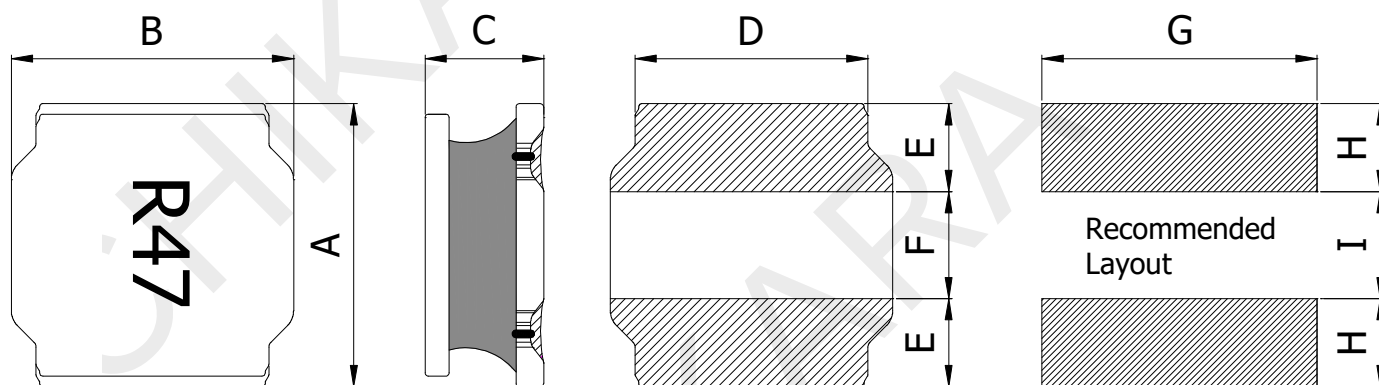


Features

- Magnetic-resin 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:3000pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
4.0±0.2	4.0±0.2	1.8Max.	3.3±0.2	0.95±0.2	2.1±0.3	3.7	1.1	1.9

Part Number Description

SP06 - 040018 R47 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

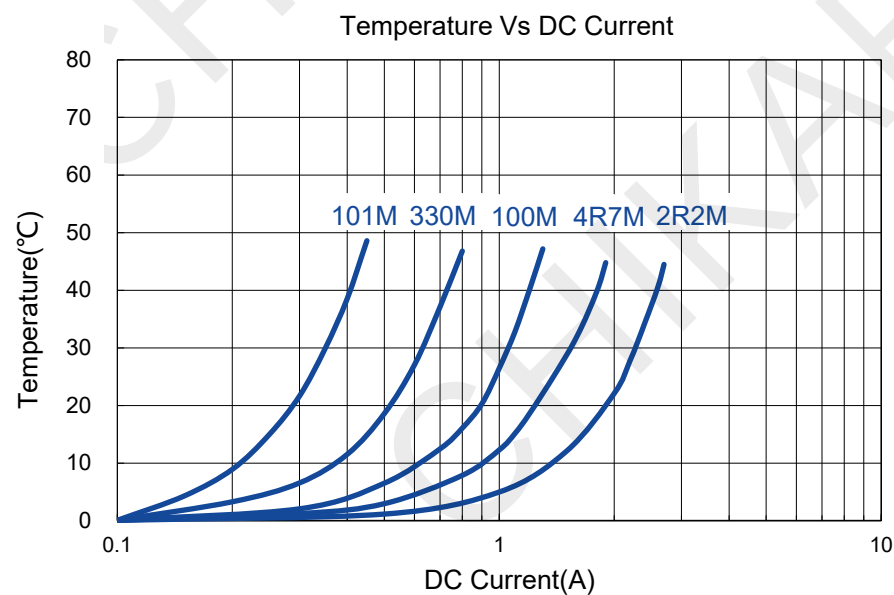
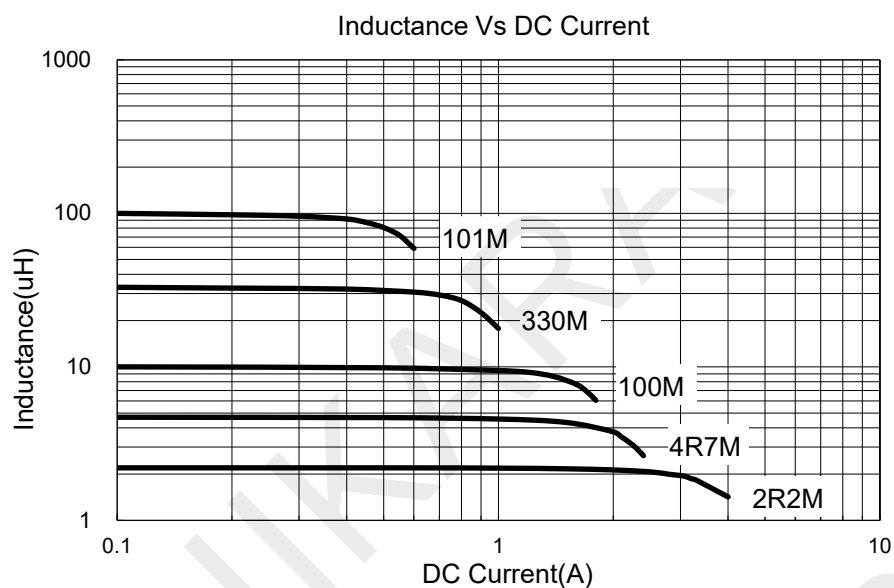


Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (Ω)±30%	Isat		Irms		SRF (MHz)Min.
			(A)Max.	(A)Typ.	(A)Max.	(A)Typ.	
SP06-040018R47N	0.47±30%	0.014	4.30	5.20	4.00	4.50	155
SP06-040018R68N	0.68±30%	0.020	4.90	5.60	3.30	3.80	128
SP06-0400181R0N	1.0±30%	0.025	4.80	5.20	2.00	3.30	80
SP06-0400181R5N	1.5±30%	0.030	3.35	4.00	1.80	3.20	65
SP06-0400181R8N	1.8±30%	0.034	3.00	3.40	2.00	2.80	54
SP06-0400182R2M	2.2±20%	0.045	2.70	3.20	1.65	2.60	52
SP06-0400183R3M	3.3±20%	0.07	2.45	2.90	1.23	2.10	44
SP06-0400184R7M	4.7±20%	0.09	1.70	2.20	1.20	1.80	34
SP06-0400186R8M	6.8±20%	0.11	1.45	2.00	1.06	1.50	29
SP06-040018100M	10±20%	0.18	1.30	1.60	0.84	1.20	24
SP06-040018150M	15±20%	0.25	0.94	1.10	0.65	1.00	19
SP06-040018220M	22±20%	0.36	0.80	0.88	0.59	0.85	16
SP06-040018330M	33±20%	0.53	0.56	0.75	0.49	0.72	12
SP06-040018470M	47±20%	0.65	0.57	0.70	0.42	0.65	10
SP06-040018680M	68±20%	1.00	0.47	0.51	0.32	0.52	8.3
SP06-040018101M	100±20%	1.75	0.40	0.44	0.25	0.41	6.5
SP06-040018151M	150±20%	2.50	0.31	0.34	0.22	0.36	5.5
SP06-040018221M	220±20%	4.00	0.27	0.30	0.17	0.27	4.0

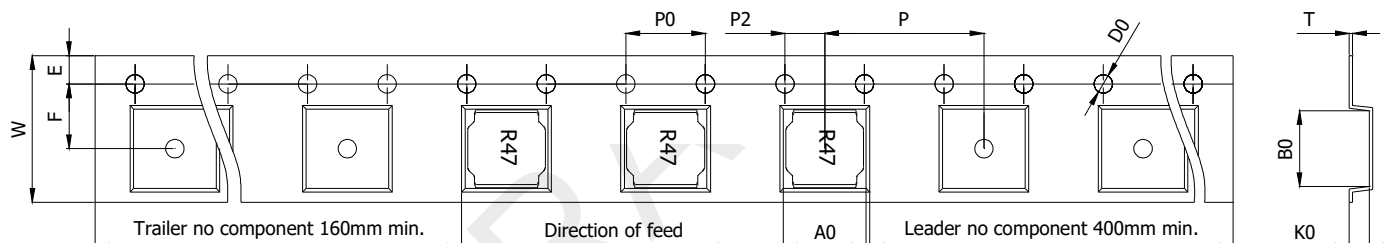
- Test frequency and voltage:100KHz,1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Characteristic Curve (Typical value)



Packaging Specification

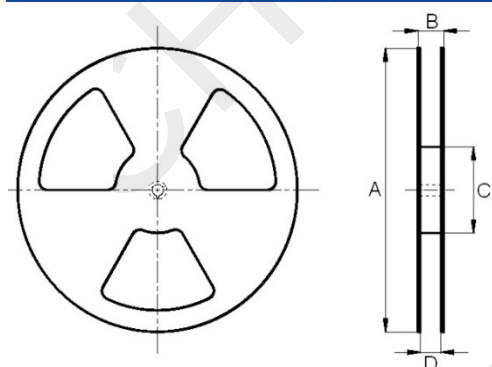
■ Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
12.0±0.3	8.0±0.1	4.3±0.1	4.3±0.1	2.1±0.1	1.75±0.1	5.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.30±0.05

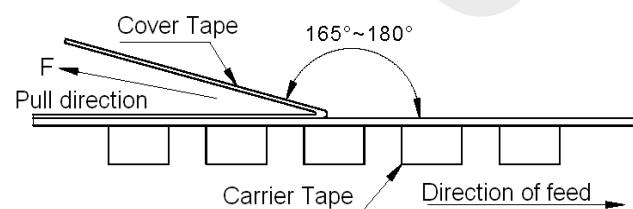
■ Reel (Unit:mm)

A	B	C	D
Φ330±1.0	18.4Max.	Φ100±1.0	13.0±0.5



■ Taping Method

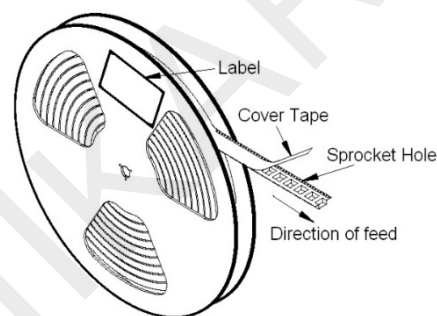
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.



※ Packing is referred to the international standard IEC 60286-3.

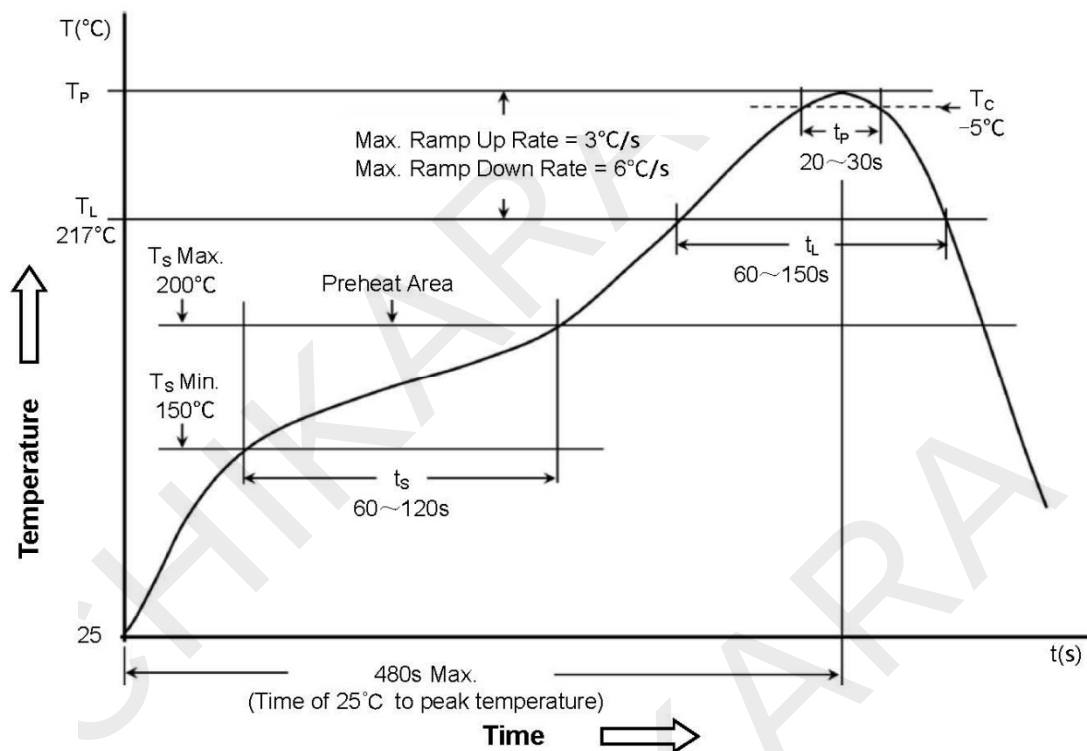
■ Package Quantity

Parts per reel
3000Pcs



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.