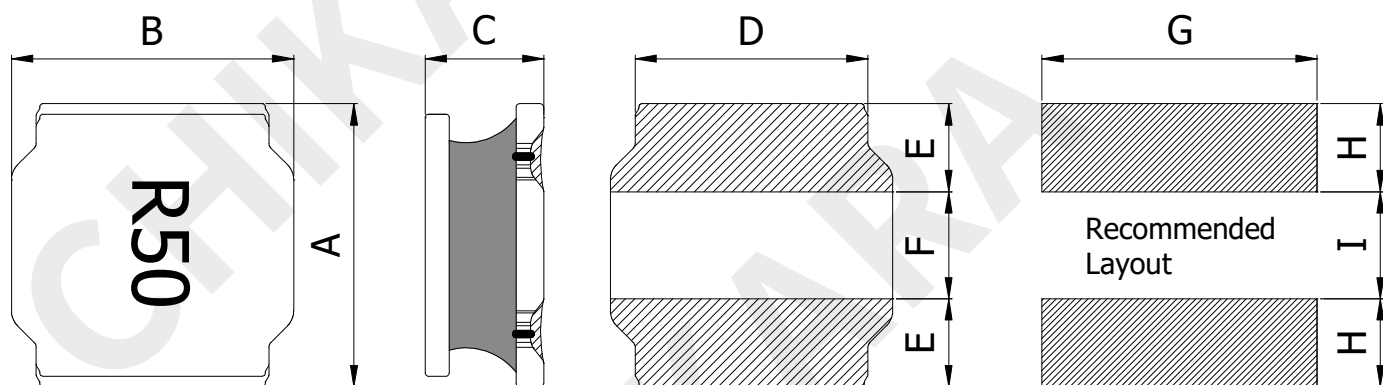


Features

- 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:2000pcs. Per 7-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
3.0±0.2	3.0±0.2	1.5Max.	2.5±0.2	0.75±0.2	1.5±0.3	2.7	0.8	1.5

Part Number Description

SP06 - 030015 R50 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

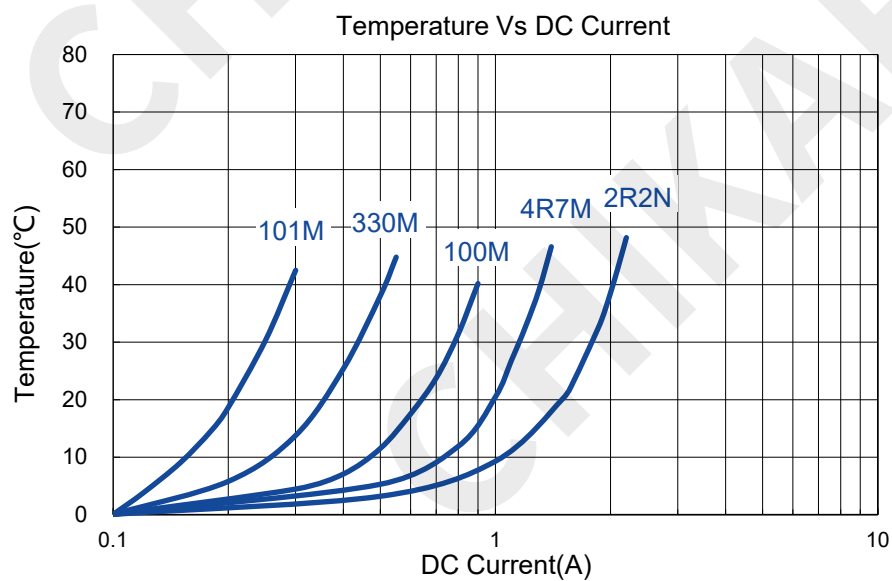
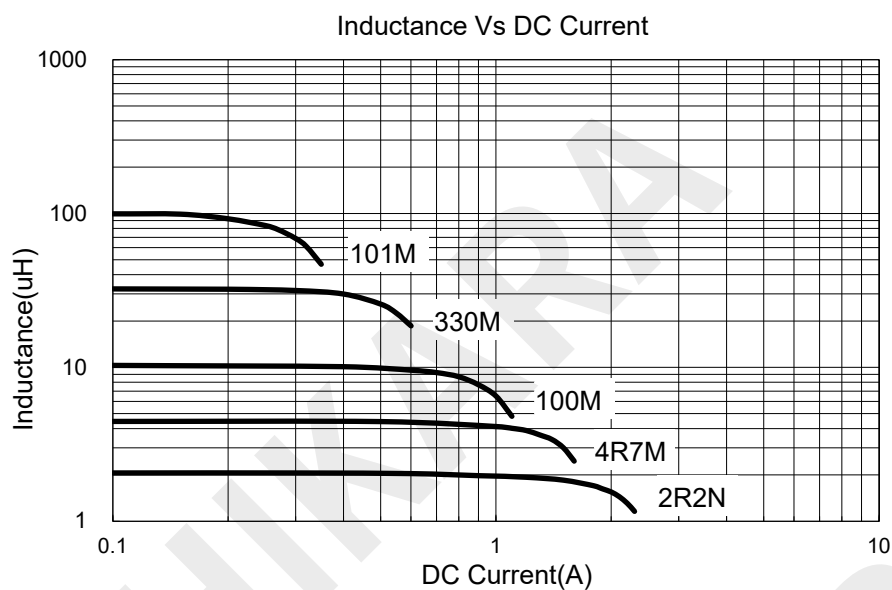


Electrical Characteristic

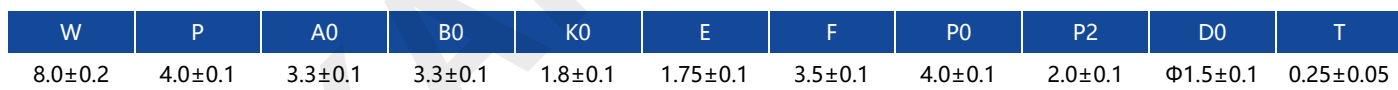
Part Number	Inductance L0(μH)	DCR (Ω)±30%	Isat		Irms		SRF (MHz)Min.
			(A)Max.	(A)Typ.	(A)Max.	(A)Typ.	
SP06-030015R50N	0.50±30%	0.030	3.90	4.20	2.60	2.80	162
SP06-0300151R0N	1.0±30%	0.030	2.32	2.80	2.35	2.50	150
SP06-0300151R5N	1.5±30%	0.050	2.30	2.70	1.70	2.20	100
SP06-0300151R8N	1.8±30%	0.050	1.75	2.20	1.70	2.20	92
SP06-0300152R2N	2.2±30%	0.060	1.60	2.00	1.60	2.00	86
SP06-0300153R3M	2.2±20%	0.080	1.32	1.81	1.36	1.60	68
SP06-0300153R9M	3.9±20%	0.105	1.20	1.40	1.20	1.50	47
SP06-0300154R7M	4.7±20%	0.125	1.10	1.40	1.09	1.30	46
SP06-0300156R8M	6.8±20%	0.200	0.85	1.10	0.85	1.10	39
SP06-030015100M	10±20%	0.250	0.72	0.92	0.77	0.90	41
SP06-030015120M	12±20%	0.320	0.70	0.90	0.68	0.89	32
SP06-030015150M	15±20%	0.350	0.66	0.88	0.65	0.72	30
SP06-030015180M	18±20%	0.430	0.56	0.72	0.59	0.72	23
SP06-030015220M	22±20%	0.460	0.52	0.68	0.57	0.69	23
SP06-030015270M	27±20%	0.730	0.48	0.56	0.45	0.56	22
SP06-030015330M	33±20%	0.820	0.44	0.53	0.43	0.51	20
SP06-030015390M	39±20%	0.995	0.41	0.55	0.39	0.44	14
SP06-030015470M	47±20%	1.25	0.35	0.43	0.35	0.44	14
SP06-030015560M	56±20%	1.28	0.33	0.42	0.34	0.41	13
SP06-030015680M	68±20%	2.70	0.28	0.37	0.23	0.31	11
SP06-030015101M	100±20%	3.11	0.23	0.25	0.21	0.25	6.3
SP06-030015151M	150±20%	3.80	0.18	0.22	0.19	0.23	4.7

- 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.

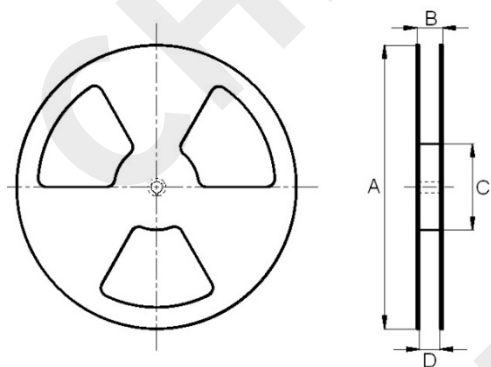
Characteristic Curve (Typical value)



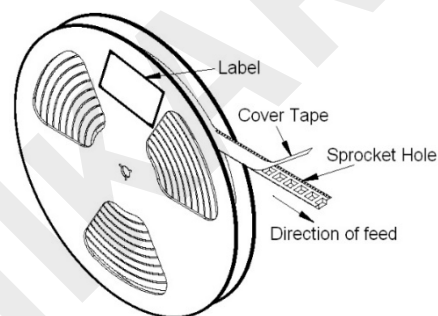
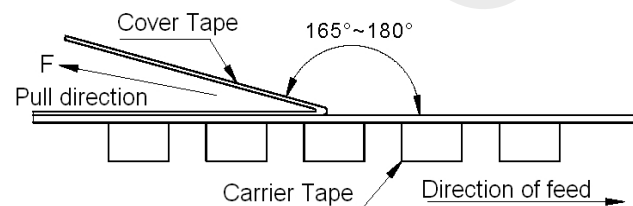
- Carrier Tape (Unit:mm)



A	B	C	D
$\Phi 178 \pm 2.0$	11.5Max.	$\Phi 50 \text{Min.}$	9.0 ± 0.5



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

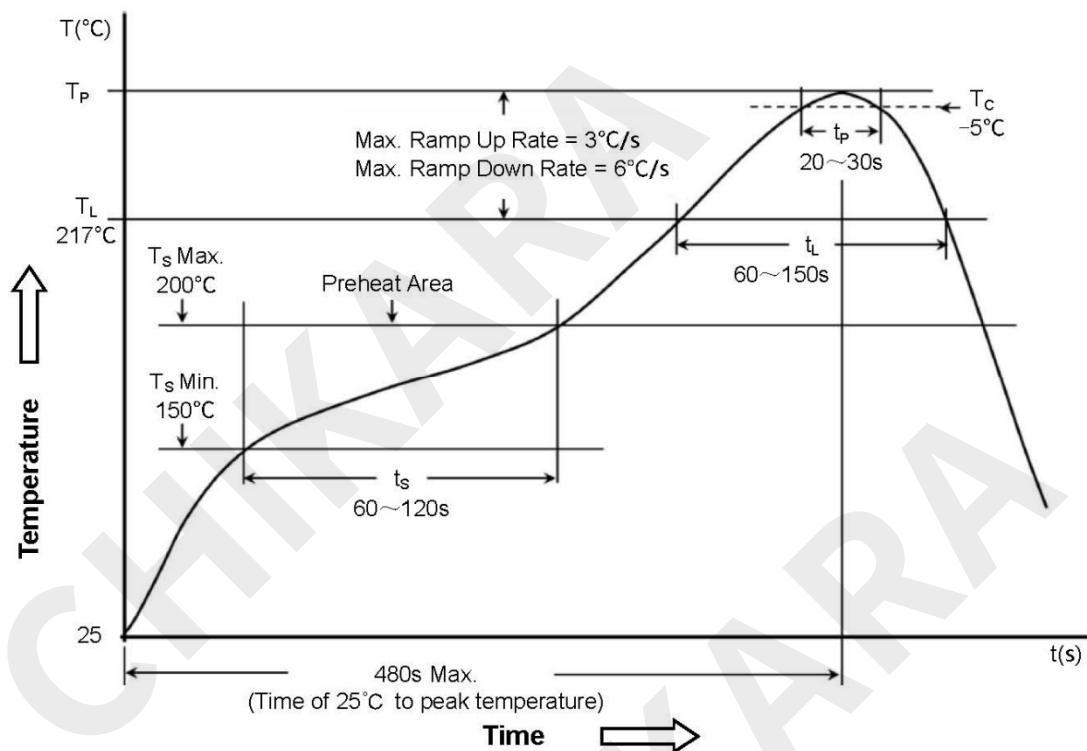


✖ Packing is referred to the international standard IEC 60286-3.

Parts per reel
2000Pcs

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.