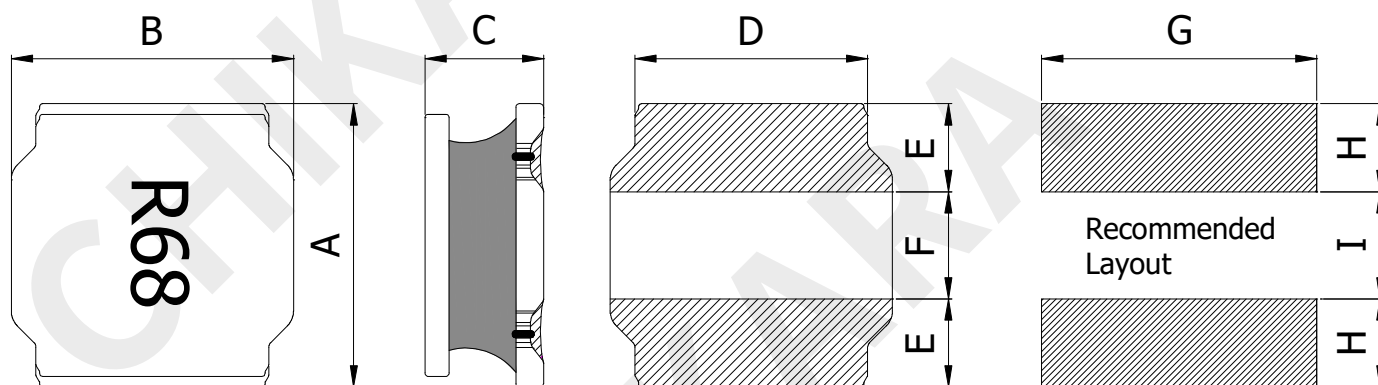


Features

- 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 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	3.0Max.	3.3±0.2	0.95±0.2	2.1±0.3	3.7	1.1	1.9

Part Number Description

SP06 - 040030 R68 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

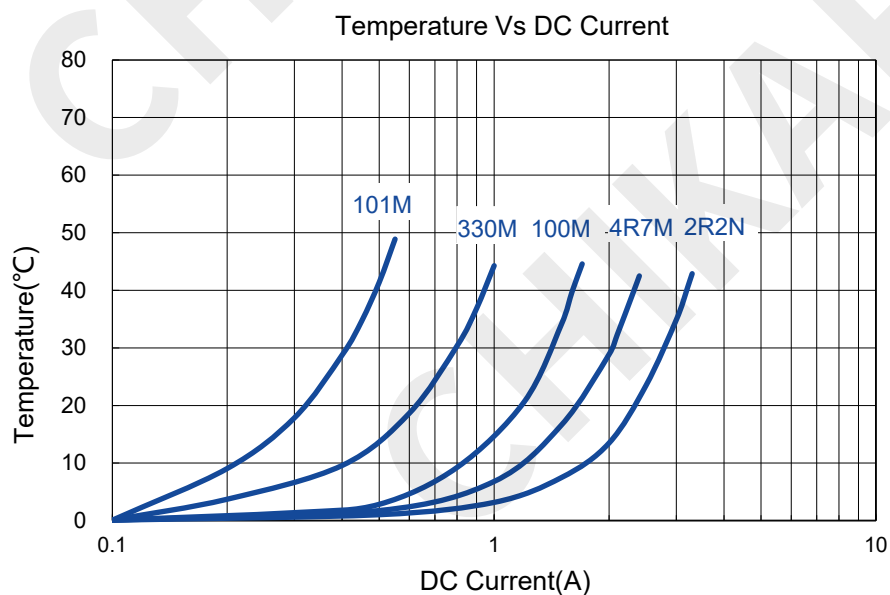
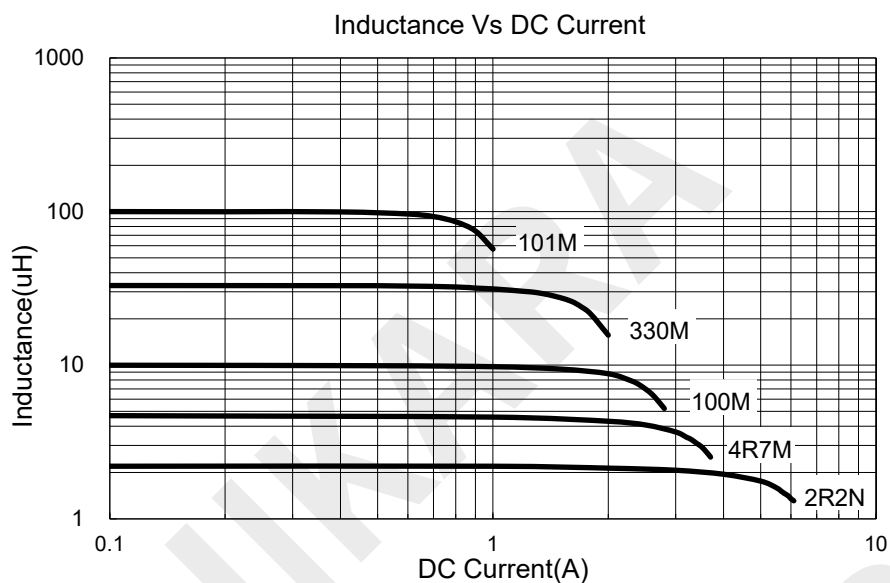


Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (Ω)±30%	Isat		Irms		SRF (MHz)Min.
			(A)Max.	(A)Typ.	(A)Max.	(A)Typ.	
SP06-040030R68N	0.68±30%	0.010	6.80	8.00	4.56	5.10	130
SP06-0400301R0N	1.0±30%	0.014	5.26	5.70	4.15	4.70	70
SP06-0400301R2N	1.2±30%	0.015	5.80	6.30	3.82	4.20	80
SP06-0400301R5N	1.5±30%	0.020	4.84	5.30	3.34	3.60	62
SP06-0400302R2N	2.2±30%	0.030	4.90	5.80	2.95	3.20	52
SP06-0400303R3M	3.3±20%	0.040	3.30	3.60	2.40	2.60	38
SP06-0400304R7M	4.7±20%	0.060	2.90	3.20	2.00	2.30	31
SP06-0400305R6M	5.6±20%	0.065	2.60	2.80	1.95	2.10	30
SP06-0400306R8M	6.8±20%	0.090	2.75	3.00	1.60	1.70	24
SP06-0400308R2M	8.2±20%	0.090	2.10	2.30	1.60	1.70	26
SP06-040030100M	10±20%	0.100	1.95	2.40	1.50	1.60	21
SP06-040030120M	12±20%	0.135	1.70	1.80	1.30	1.40	18
SP06-040030150M	15±20%	0.190	1.65	1.80	1.11	1.20	16
SP06-040030220M	22±20%	0.225	1.30	1.40	1.00	1.20	10
SP06-040030270M	27±20%	0.260	1.15	1.35	0.90	1.05	10
SP06-040030330M	33±20%	0.330	1.10	1.20	0.84	0.92	10
SP06-040030390M	39±20%	0.435	1.03	1.10	0.73	0.80	10
SP06-040030470M	47±20%	0.445	0.95	1.00	0.72	0.80	8.4
SP06-040030560M	56±20%	0.555	0.85	0.94	0.65	0.71	8.4
SP06-040030680M	68±20%	0.868	0.72	0.80	0.52	0.57	7.0
SP06-040030820M	82±20%	1.06	0.66	0.72	0.47	0.52	5.6
SP06-040030101M	100±20%	1.15	0.60	0.73	0.45	0.49	5.6
SP06-040030121M	120±20%	1.35	0.55	0.60	0.42	0.46	5.4
SP06-040030151M	150±20%	1.80	0.50	0.60	0.30	0.41	4.0
SP06-040030221M	220±20%	2.50	0.40	0.50	0.35	0.40	4.2
SP06-040030331M	330±20%	4.00	0.30	0.40	0.25	0.26	6.8
SP06-040030471M	470±20%	7.20	0.30	0.35	0.20	0.21	2.0
SP06-040030681M	680±20%	7.58	0.19	0.23	0.14	0.19	1.2

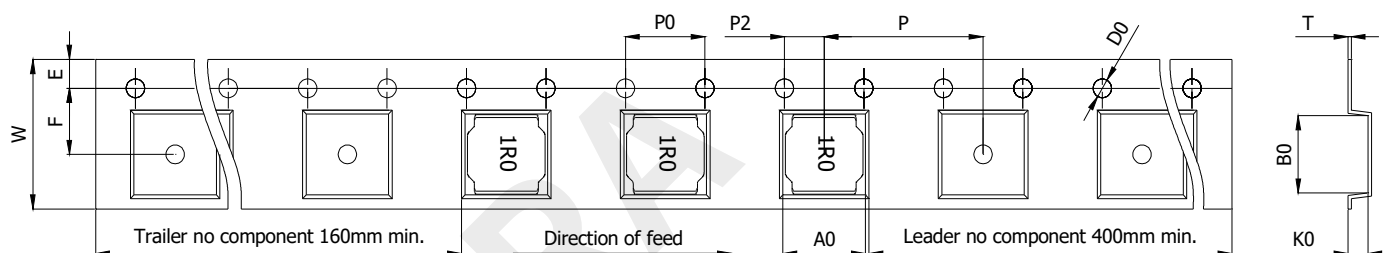
- Test frequency and voltage:100KHz,1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Characteristic Curve (Typical value)



Packaging Specification

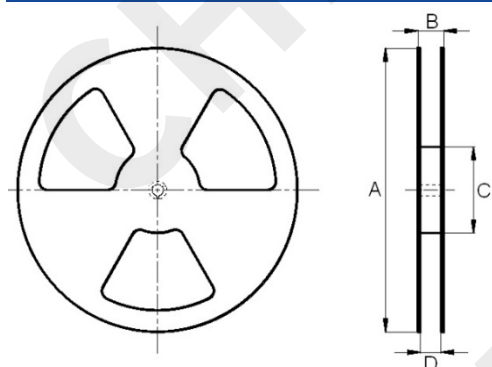
■ Carrier Tape (Unit:mm)



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	3.3±0.1	1.75±0.1	5.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.35±0.05

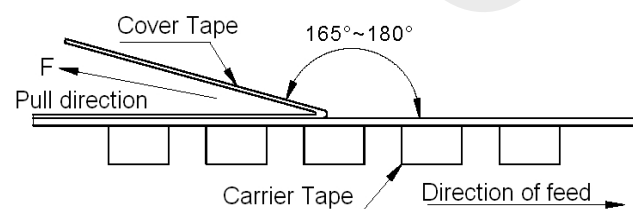
■ Reel (Unit:mm)

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



■ Taping Method

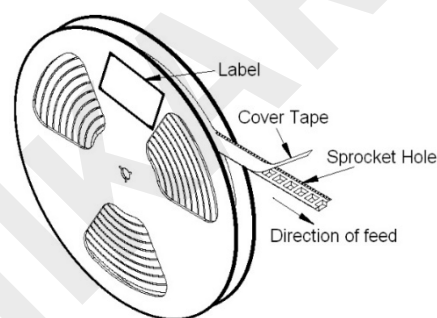
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.



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

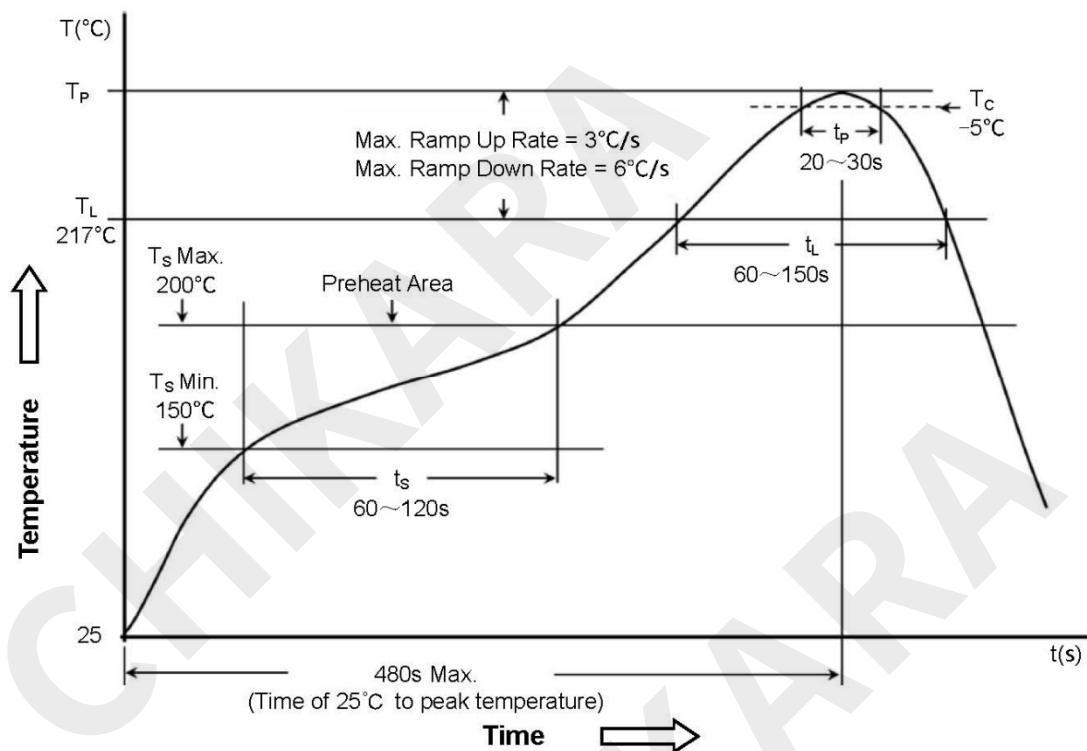
■ Package Quantity

Parts per reel
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.