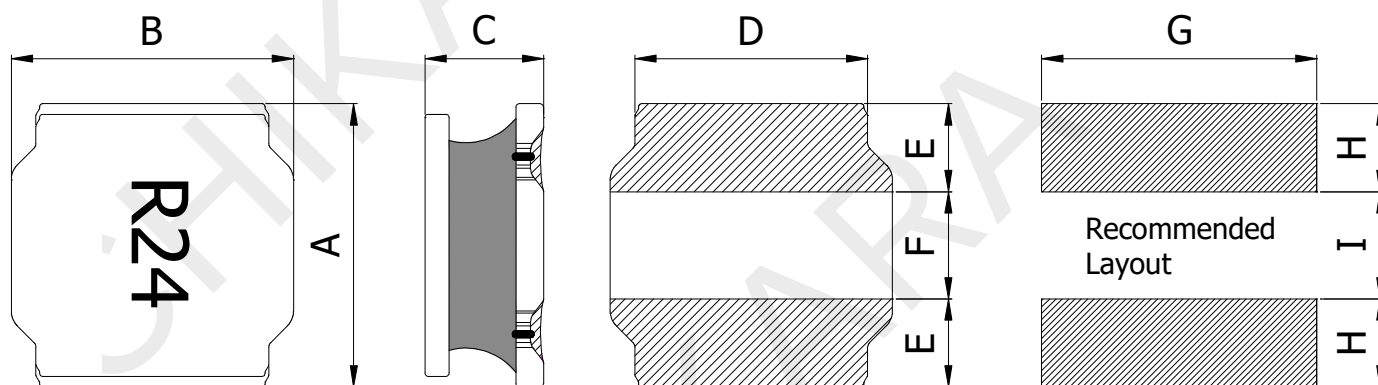


Features

- 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	2.0Max.	3.3±0.2	0.95±0.2	2.1±0.3	3.7	1.1	1.9

Part Number Description

SP06 - 040020 R24 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

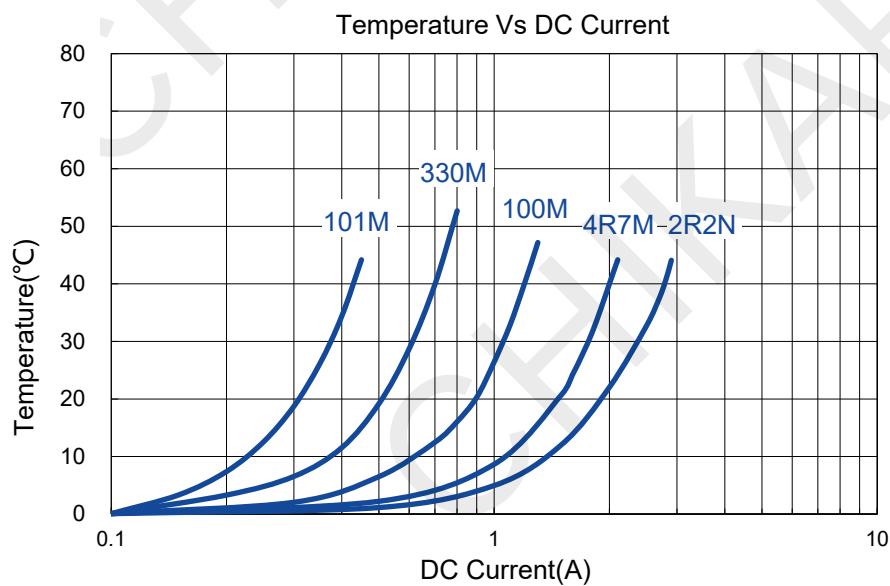
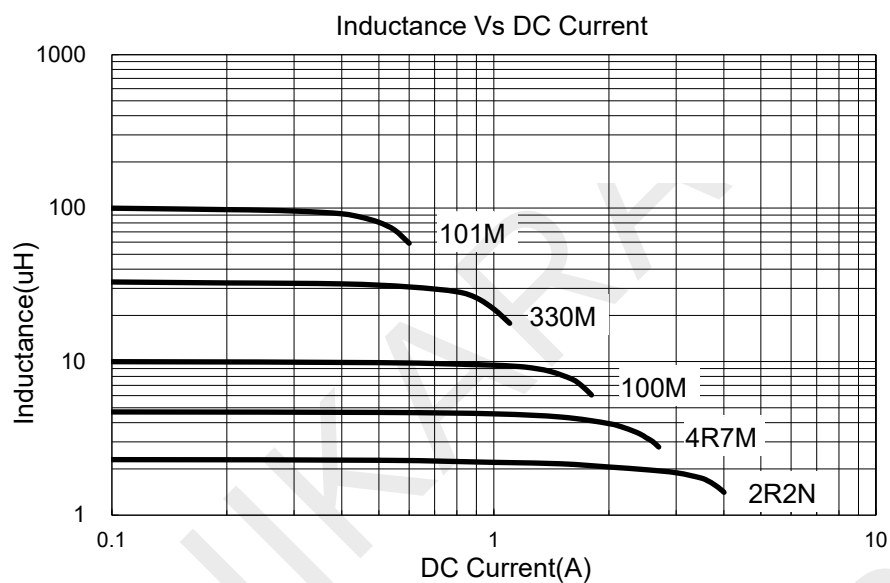


Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (Ω)±30%	Isat		Irms		SRF (MHz)Min.
			(A)Max.	(A)Typ.	(A)Max.	(A)Typ.	
SP06-040020R24N	0.24±30%	0.011	10.50	12.50	4.50	5.20	283
SP06-040020R33N	0.33±30%	0.013	7.50	8.50	3.30	4.90	223
SP06-040020R47N	0.47±30%	0.022	7.00	7.50	3.30	3.70	160
SP06-040020R68N	0.68±30%	0.028	6.40	6.60	2.80	3.30	120
SP06-0400201R0N	1.0±30%	0.029	4.78	5.20	2.15	3.20	75
SP06-0400201R2N	1.2±30%	0.029	5.10	5.60	2.15	3.20	72
SP06-0400201R5N	1.5±30%	0.035	4.45	4.90	1.98	3.00	71
SP06-0400202R2N	2.2±30%	0.040	3.40	3.70	1.85	2.80	49
SP06-0400203R3M	3.3±20%	0.070	3.20	3.50	1.40	2.50	44
SP06-0400203R6M	3.6±20%	0.055	2.80	3.00	1.54	2.50	49
SP06-0400204R7M	4.7±20%	0.075	2.35	2.50	1.34	2.00	42
SP06-0400205R1M	5.1±20%	0.085	2.30	2.50	1.27	1.80	42
SP06-0400205R6M	5.6±20%	0.090	2.20	2.40	1.22	1.80	30
SP06-0400206R2M	6.2±20%	0.115	2.15	2.30	1.08	1.60	36
SP06-0400206R8M	6.8±20%	0.125	2.20	2.40	1.04	1.60	33
SP06-0400207R5M	7.5±20%	0.115	1.85	2.00	1.08	1.50	30
SP06-0400208R2M	8.2±20%	0.125	1.75	1.90	1.04	1.40	27
SP06-040020100M	10±20%	0.165	1.60	1.70	0.90	1.20	26
SP06-040020120M	12±20%	0.175	1.50	1.60	0.88	1.20	26
SP06-040020150M	15±20%	0.230	1.35	1.50	0.77	1.10	24
SP06-040020220M	22±20%	0.350	1.05	1.10	0.62	0.87	15
SP06-040020270M	27±20%	0.545	1.02	1.10	0.50	0.70	14
SP06-040020330M	33±20%	0.550	0.85	0.93	0.49	0.68	11
SP06-040020390M	39±20%	0.650	0.82	0.90	0.46	0.64	11
SP06-040020430M	43±20%	0.660	0.77	0.85	0.45	0.63	10
SP06-040020470M	47±20%	0.710	0.74	0.81	0.44	0.61	10
SP06-040020510M	51±20%	0.750	0.70	0.77	0.42	0.59	10
SP06-040020560M	56±20%	0.800	0.66	0.72	0.41	0.57	10
SP06-040020620M	62±20%	0.900	0.65	0.71	0.39	0.52	9.6
SP06-040020680M	68±20%	1.06	0.61	0.67	0.36	0.50	7.7
SP06-040020750M	75±20%	1.16	0.70	0.77	0.35	0.49	7.7
SP06-040020820M	82±20%	1.17	0.50	0.55	0.34	0.47	7.2
SP06-040020101M	100±20%	1.55	0.48	0.53	0.31	0.43	6.3

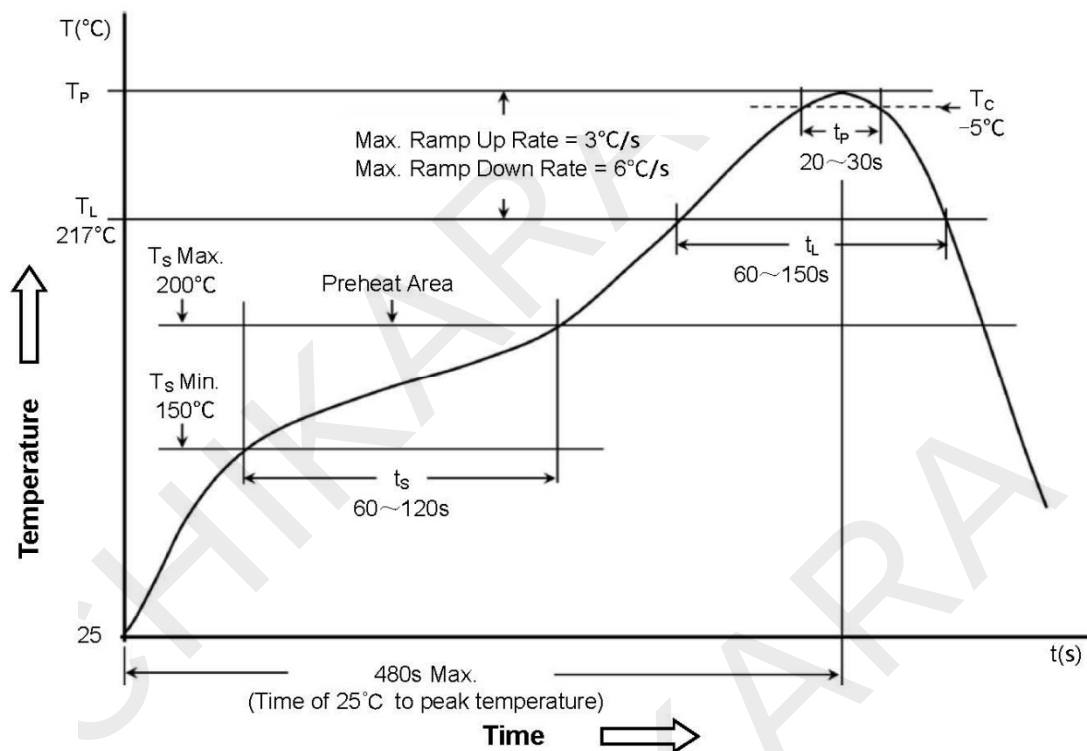
- Test frequency and voltage:100KHz,1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Characteristic Curve (Typical value)



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.