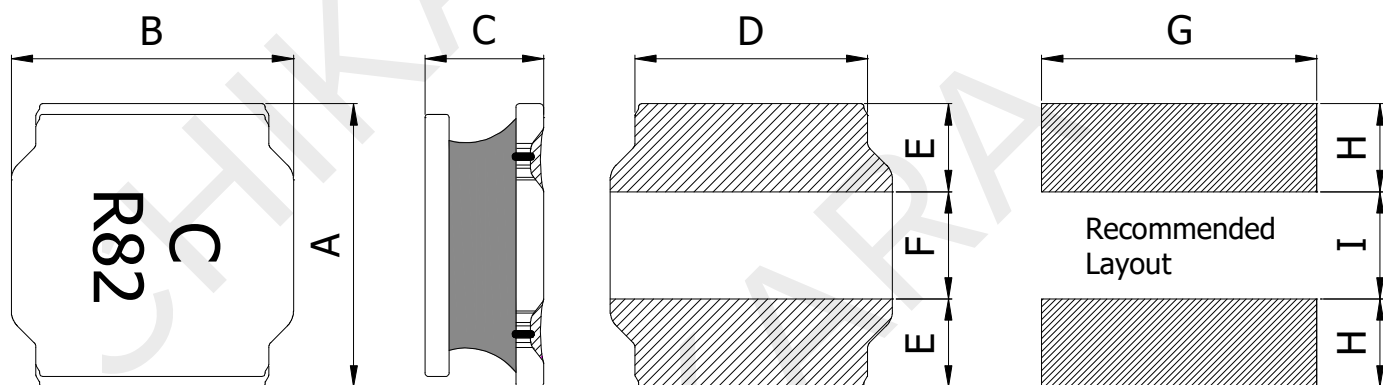


Features

- 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:1000pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
8.0±0.3	8.0±0.3	4.2Max.	6.3±0.3	2.0±0.3	4.0±0.3	7.5	2.2	3.8

Part Number Description

SP06 - 080040 R82 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

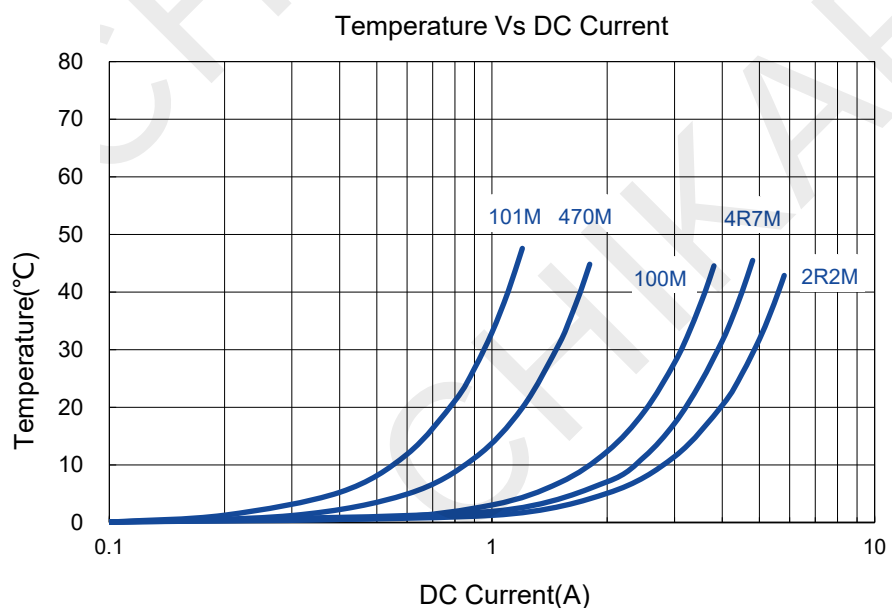
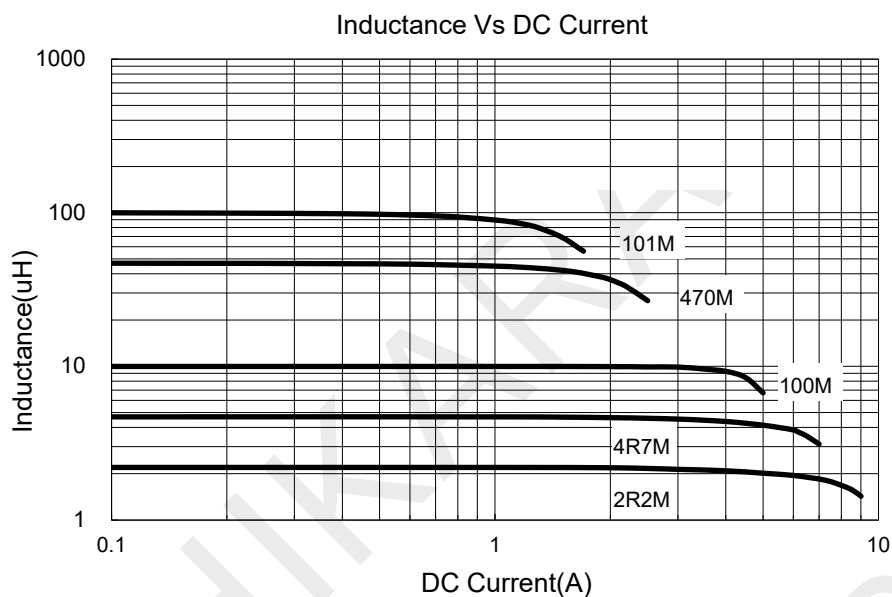


Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (Ω)±30%	Isat		Irms		SRF (MHz)Min.
			(A)Max.	(A)Typ.	(A)Max.	(A)Typ.	
SP06-080040R82N	0.82±30%	0.008	13.8	16.0	6.30	6.90	94
SP06-0800401R0N	1.0±30%	0.008	9.85	14.0	6.30	6.90	89
SP06-0800401R2N	1.2±30%	0.010	10.0	14.0	5.65	6.20	59
SP06-0800401R5N	1.5±30%	0.010	8.15	11.0	5.65	6.20	67
SP06-0800402R2M	2.2±20%	0.012	7.10	8.00	5.15	5.60	41
SP06-0800403R3M	3.3±20%	0.017	6.50	7.00	4.40	4.80	27
SP06-0800403R6M	3.6±20%	0.017	7.52	8.50	4.35	4.80	30
SP06-0800403R9M	3.9±20%	0.017	5.75	6.50	4.35	4.80	26
SP06-0800404R7M	4.7±20%	0.019	5.90	6.50	4.10	4.50	24
SP06-0800405R6M	5.6±20%	0.021	6.00	6.90	3.85	4.20	24
SP06-0800406R8M	6.8±20%	0.024	4.55	5.20	3.60	4.00	20
SP06-0800408R2M	8.2±20%	0.026	4.20	4.80	3.45	3.80	17
SP06-080040100M	10±20%	0.029	3.60	4.10	3.30	3.60	15
SP06-080040120M	12±20%	0.041	3.50	4.00	2.80	3.00	13
SP06-080040150M	15±20%	0.047	2.95	3.40	2.60	2.80	12
SP06-080040180M	18±20%	0.053	2.70	3.10	2.40	2.60	11
SP06-080040220M	22±20%	0.069	2.40	2.70	2.10	2.30	9.5
SP06-080040270M	27±20%	0.078	2.15	2.50	2.00	2.20	9.2
SP06-080040330M	33±20%	0.097	2.05	2.40	1.80	2.00	7.8
SP06-080040390M	39±20%	0.107	1.95	2.20	1.70	1.90	7.8
SP06-080040470M	47±20%	0.136	1.75	2.00	1.55	1.70	6.4
SP06-080040510M	51±20%	0.142	1.70	1.90	1.50	1.60	6.4
SP06-080040560M	56±20%	0.148	1.55	1.70	1.45	1.60	6.4
SP06-080040620M	62±20%	0.182	1.50	1.60	1.30	1.40	6.4
SP06-080040680M	68±20%	0.196	1.45	1.60	1.25	1.40	4.9
SP06-080040750M	75±20%	0.211	1.35	1.50	1.20	1.30	4.9
SP06-080040820M	82±20%	0.225	1.30	1.40	1.15	1.20	5.9
SP06-080040101M	100±20%	0.290	1.15	1.30	1.00	1.10	4.2
SP06-080040121M	120±20%	0.334	1.05	1.10	0.95	1.00	3.5
SP06-080040151M	150±20%	0.410	1.10	1.20	0.85	0.94	3.5
SP06-080040181M	180±20%	0.520	0.95	1.15	0.83	0.92	3.5
SP06-080040221M	220±20%	0.599	0.85	0.94	0.80	0.88	3.5
SP06-080040331M	330±20%	0.889	0.68	0.75	0.64	0.70	2.8
SP06-080040471M	470±20%	1.26	0.60	0.70	0.50	0.60	2.1
SP06-080040681M	680±20%	2.04	0.50	0.60	0.45	0.50	1.7
SP06-080040102M	1000±20%	2.80	0.40	0.50	0.35	0.40	1.4

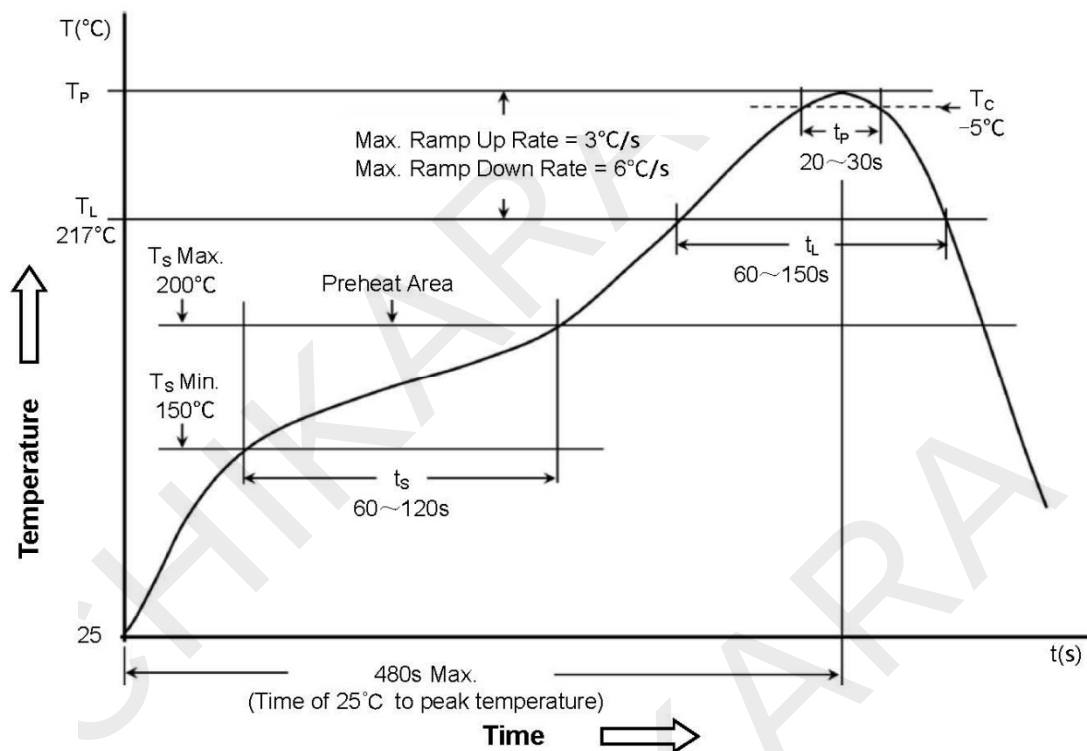
- Test frequency and voltage:100KHz,1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

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.