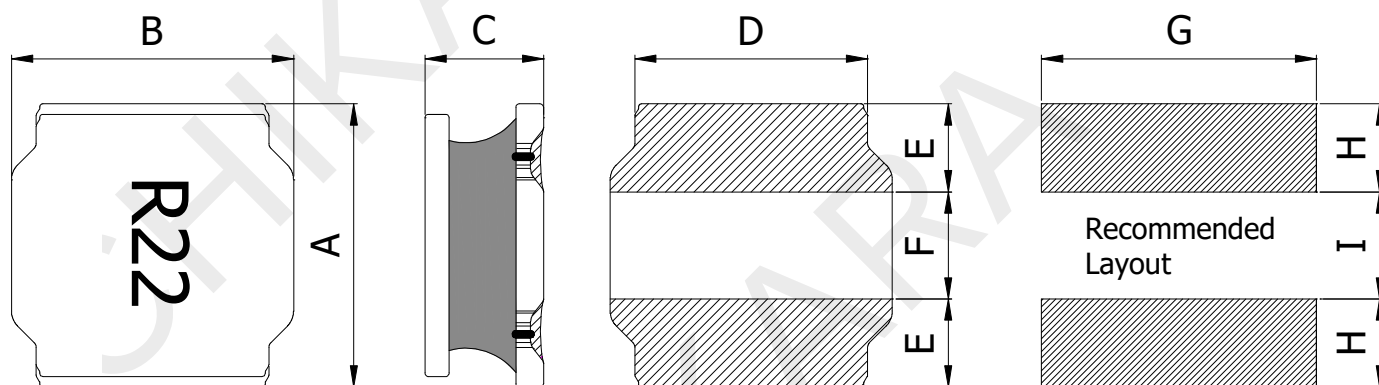


Features

- 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	1.2Max.	2.5±0.2	0.75±0.2	1.5±0.3	2.7	0.8	1.5

Part Number Description

SP06 - 030012 R22 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

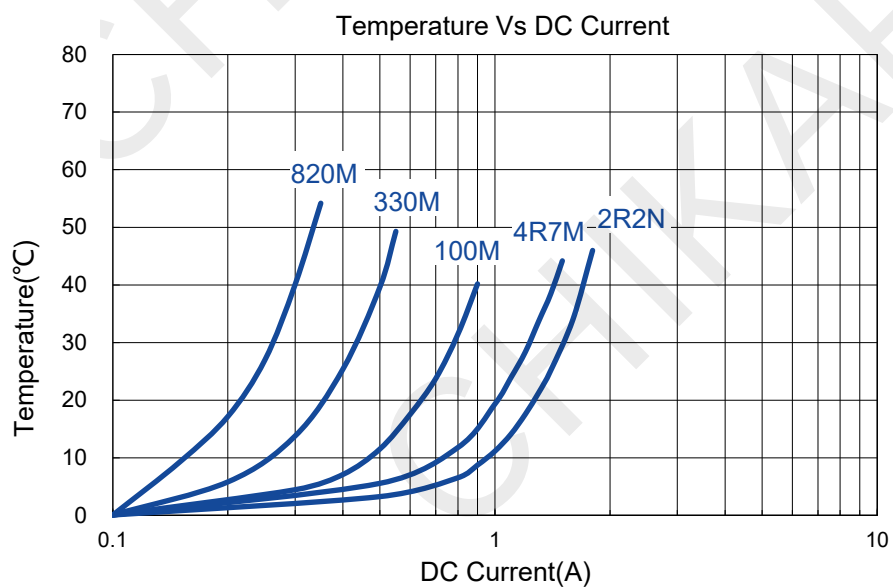
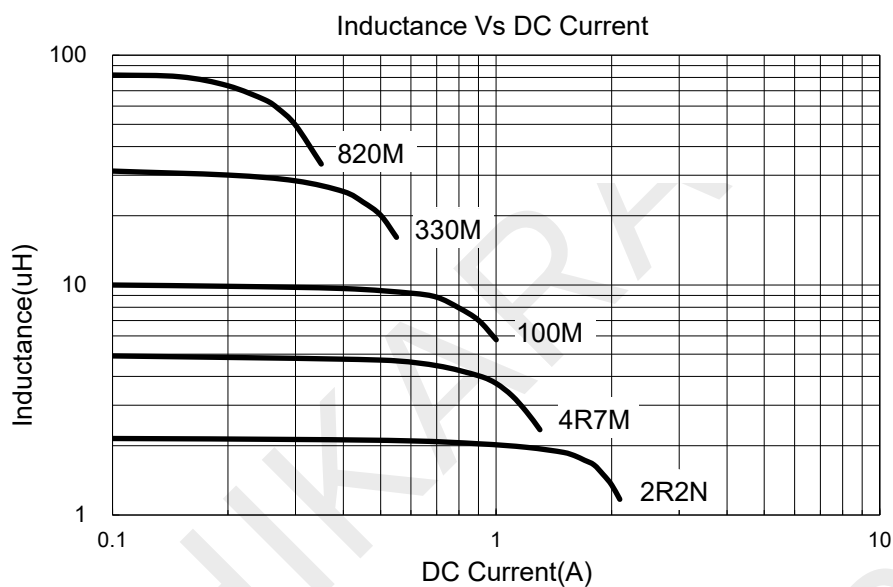


Electrical Characteristic

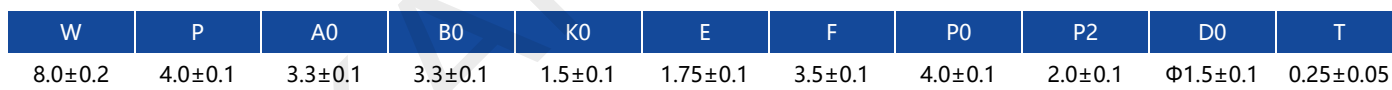
Part Number	Inductance L0(μH)	DCR (Ω)±30%	Isat		Irms		SRF (MHz)Min.
			(A)Max.	(A)Typ.	(A)Max.	(A)Typ.	
SP06-030012R22N	0.22±30%	0.017	5.30	6.00	3.00	3.30	321
SP06-030012R82N	0.82±30%	0.030	2.05	2.80	2.47	3.00	180
SP06-0300121R0N	1.0±30%	0.040	1.87	2.80	2.20	2.70	120
SP06-0300121R5N	1.5±30%	0.045	1.62	1.90	2.01	2.20	110
SP06-0300121R8N	1.8±30%	0.063	1.30	1.90	1.65	1.80	90
SP06-0300122R2N	2.2±30%	0.075	1.20	1.90	1.55	1.70	84
SP06-0300122R7N	2.7±30%	0.085	1.14	1.50	1.48	1.50	65
SP06-0300123R3M	3.3±20%	0.100	1.05	1.50	1.36	1.40	64
SP06-0300123R9M	3.9±20%	0.145	1.00	1.30	1.24	1.30	61
SP06-0300124R7M	4.7±20%	0.120	0.90	1.00	1.24	1.30	61
SP06-0300125R6M	5.6±20%	0.174	0.80	1.10	1.13	1.24	61
SP06-0300126R8M	6.8±20%	0.190	0.75	0.90	0.98	1.10	61
SP06-030012100M	10±20%	0.265	0.60	0.88	0.83	0.90	42
SP06-030012120M	12±20%	0.345	0.48	0.67	0.73	0.84	32
SP06-030012150M	15±20%	0.360	0.45	0.62	0.71	0.77	27
SP06-030012180M	18±20%	0.545	0.43	0.59	0.58	0.65	25
SP06-030012220M	22±20%	0.645	0.42	0.52	0.53	0.59	23
SP06-030012270M	27±20%	0.870	0.35	0.48	0.47	0.51	21
SP06-030012330M	33±20%	0.875	0.36	0.46	0.46	0.50	18
SP06-030012390M	39±20%	1.33	0.30	0.39	0.37	0.41	18
SP06-030012470M	47±20%	1.45	0.27	0.35	0.35	0.40	14
SP06-030012560M	56±20%	1.38	0.26	0.33	0.28	0.40	9
SP06-030012680M	68±20%	1.67	0.24	0.29	0.33	0.37	7
SP06-030012820M	82±20%	2.54	0.17	0.27	0.27	0.31	7
SP06-030012101M	100±20%	2.86	0.21	0.23	0.25	0.29	5

- 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.

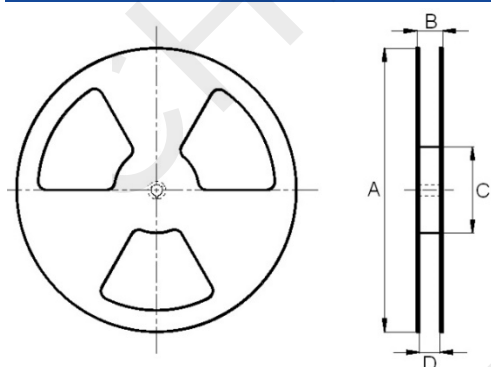
Characteristic Curve (Typical value)



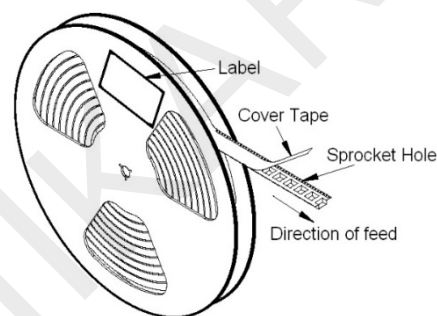
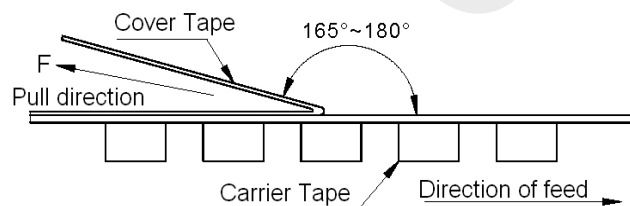
- Carrier Tape (Unit:mm)



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.

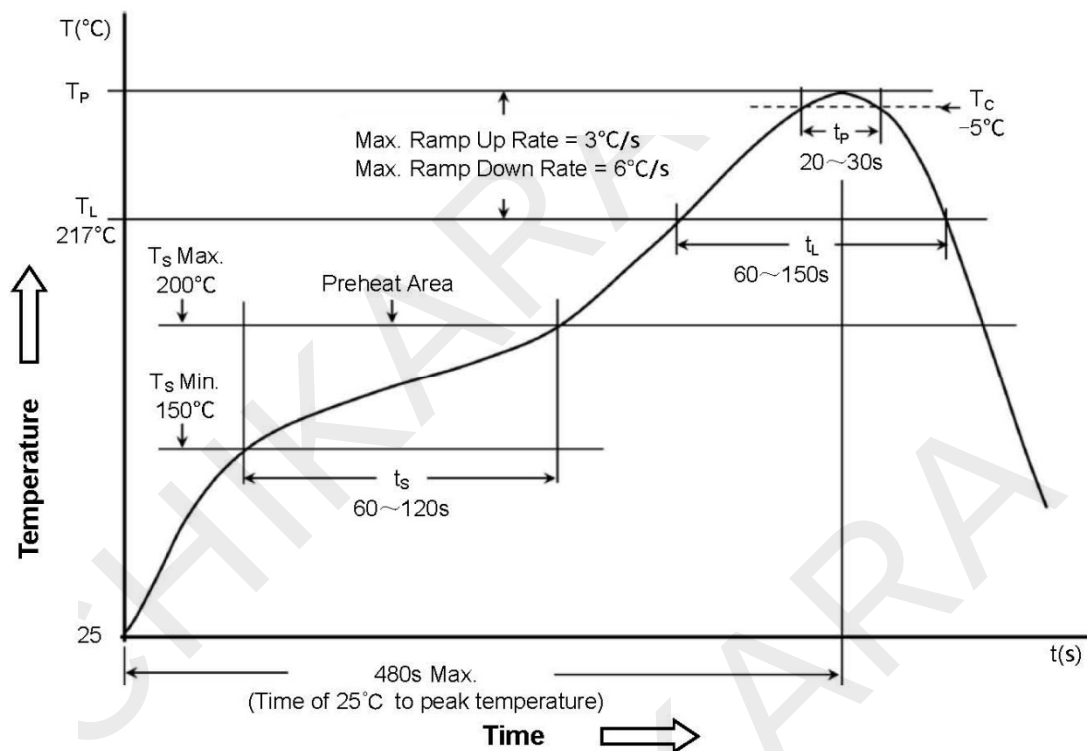


✖ Packing is referred to the international standard IEC 60286-3.

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.