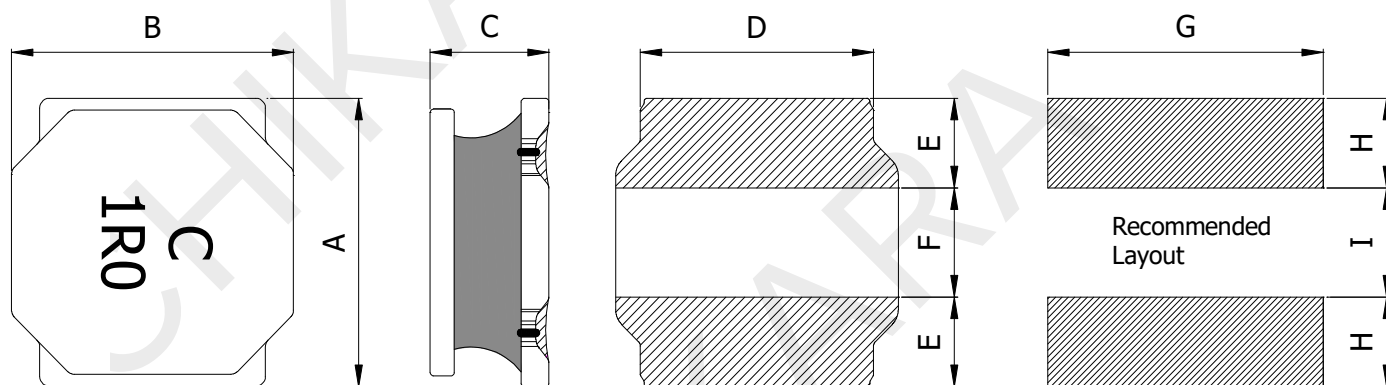


Features

- 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:1500pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
5.0±0.2	5.0±0.2	4.0Max.	4.0±0.2	1.25±0.2	2.5±0.3	4.2	1.4	2.3

Part Number Description

SP06 - 050040 1R0 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

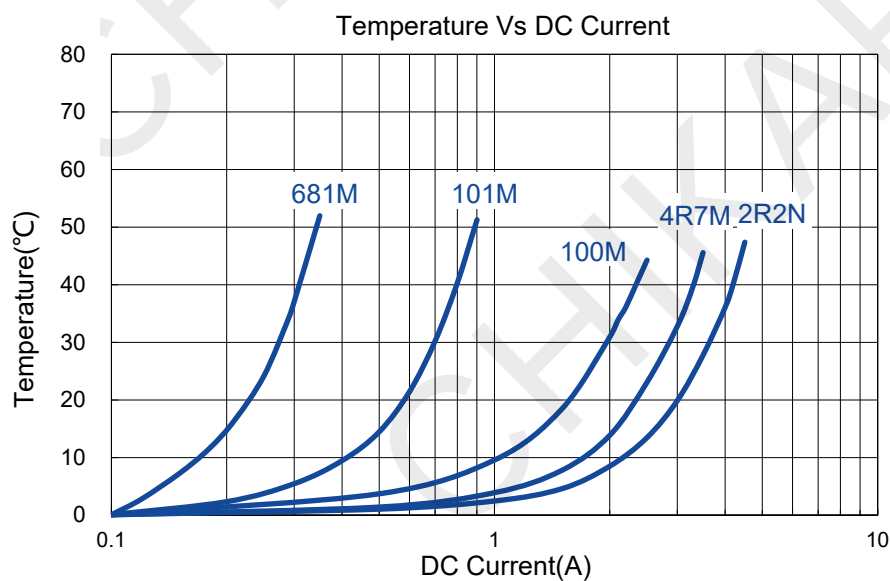
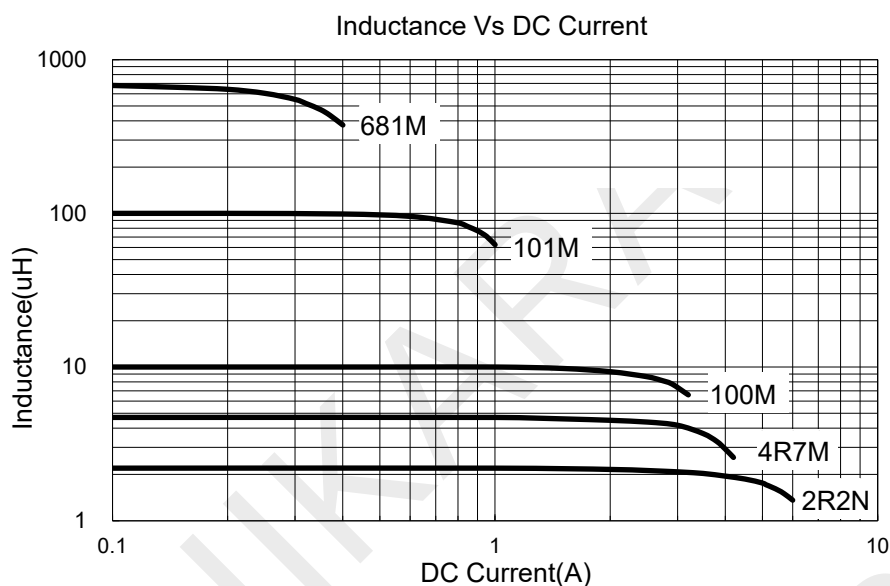


Electrical Characteristic

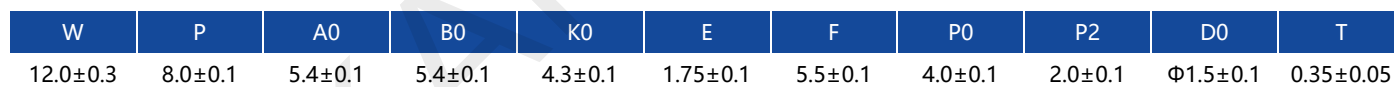
Part Number	Inductance L0(μH)	DCR (Ω)±30%	Isat		Irms		SRF (MHz)Min.
			(A)Max.	(A)Typ.	(A)Max.	(A)Typ.	
SP06-0500401R0N	1.0±30%	0.012	7.35	8.00	4.90	5.00	117
SP06-0500401R2N	1.2±30%	0.016	6.50	7.00	4.15	4.25	110
SP06-0500401R5N	1.5±30%	0.015	6.30	6.80	4.30	4.85	86
SP06-0500401R8N	1.8±30%	0.016	5.50	6.05	4.15	4.30	55
SP06-0500402R2N	2.2±30%	0.019	4.90	5.50	3.80	4.20	50
SP06-0500402R7N	2.7±30%	0.022	4.30	4.80	3.60	4.00	37
SP06-0500403R0N	3.0±30%	0.022	4.15	4.60	3.60	4.00	37
SP06-0500403R3M	3.3±20%	0.024	3.95	4.45	3.40	3.90	32
SP06-0500403R6M	3.6±20%	0.026	3.80	4.40	3.30	3.70	30
SP06-0500403R9M	3.9±20%	0.027	3.55	4.00	3.20	3.70	29
SP06-0500404R7M	4.7±20%	0.030	3.50	3.80	3.00	3.30	28
SP06-0500405R6M	5.6±20%	0.035	3.00	3.70	2.80	3.10	27
SP06-0500406R8M	6.8±20%	0.043	2.90	3.40	2.50	2.80	21
SP06-0500408R2M	8.2±20%	0.048	2.70	2.90	2.30	2.60	20
SP06-050040100M	10±20%	0.064	2.35	2.70	2.10	2.35	18
SP06-050040150M	15±20%	0.086	2.00	2.20	2.00	2.05	13
SP06-050040220M	22±20%	0.129	1.60	1.80	1.50	1.60	11
SP06-050040330M	33±20%	0.188	1.30	1.45	1.20	1.35	9.0
SP06-050040470M	47±20%	0.272	1.10	1.20	1.00	1.15	7.0
SP06-050040680M	68±20%	0.40	0.90	1.00	0.80	0.90	6.0
SP06-050040101M	100±20%	0.56	0.75	0.85	0.70	0.78	5.0
SP06-050040151M	150±20%	0.75	0.65	0.67	0.60	0.70	3.7
SP06-050040221M	220±20%	1.40	0.48	0.55	0.40	0.50	3.0
SP06-050040301M	300±20%	2.00	0.50	0.58	0.35	0.40	2.7
SP06-050040331M	330±20%	2.10	0.42	0.47	0.40	0.50	2.5
SP06-050040471M	470±20%	3.00	0.37	0.43	0.35	0.40	2.2
SP06-050040561M	560±20%	3.78	0.31	0.36	0.31	0.35	1.6
SP06-050040681M	680±20%	3.90	0.30	0.35	0.25	0.30	1.5
SP06-050040102M	1000±20%	6.00	0.21	0.25	0.20	0.23	1.3

- 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.

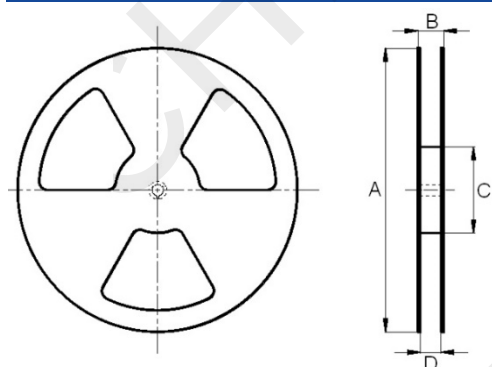
Characteristic Curve (Typical value)



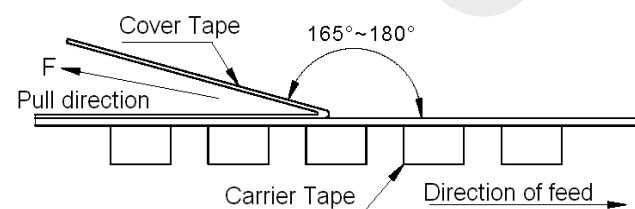
- Carrier Tape (Unit:mm)



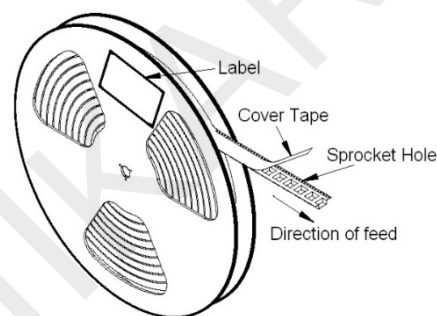
A	B	C	D
$\Phi 330 \pm 1.0$	18.4Max.	$\Phi 100 \pm 1.0$	13.0 ± 0.5



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



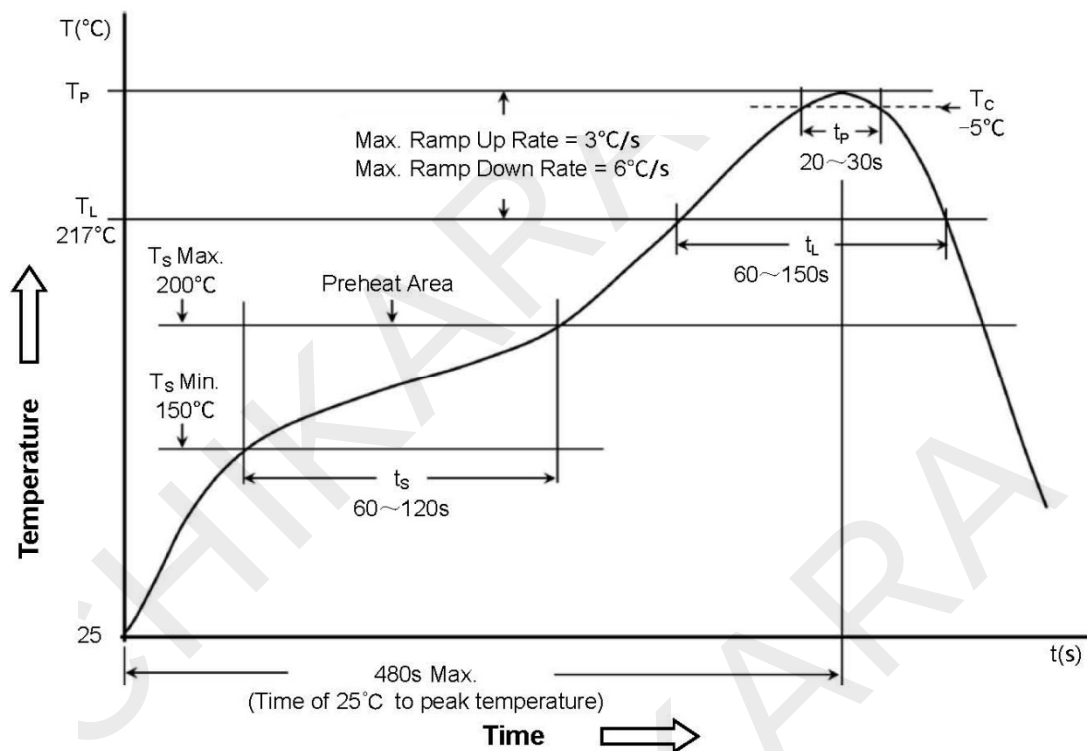
✖ Packing is referred to the international standard IEC 60286-3.



Parts per reel
1500Pcs

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.