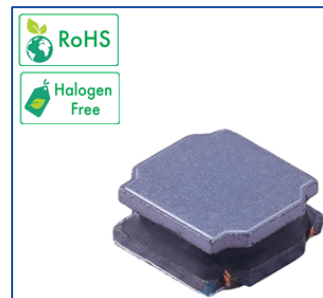
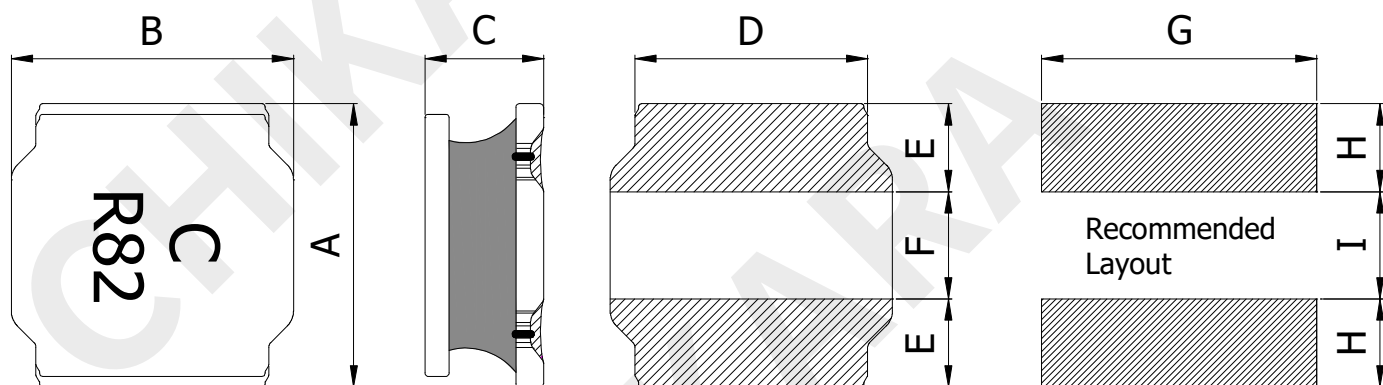


Features

- 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
6.0±0.3	6.0±0.3	2.8Max.	4.9±0.3	1.55±0.3	2.9±0.3	5.7	1.7	2.8

Part Number Description

SP06 - 060028 R82 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

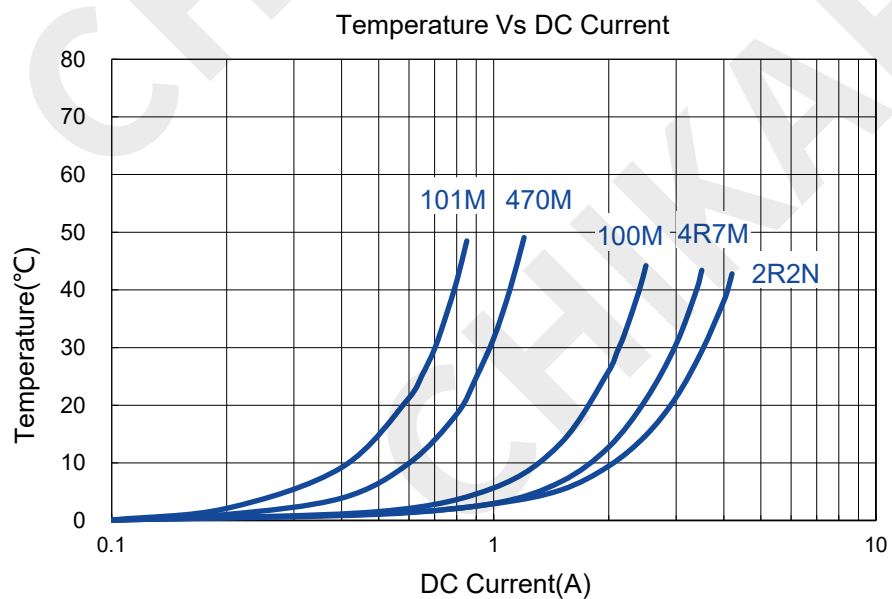
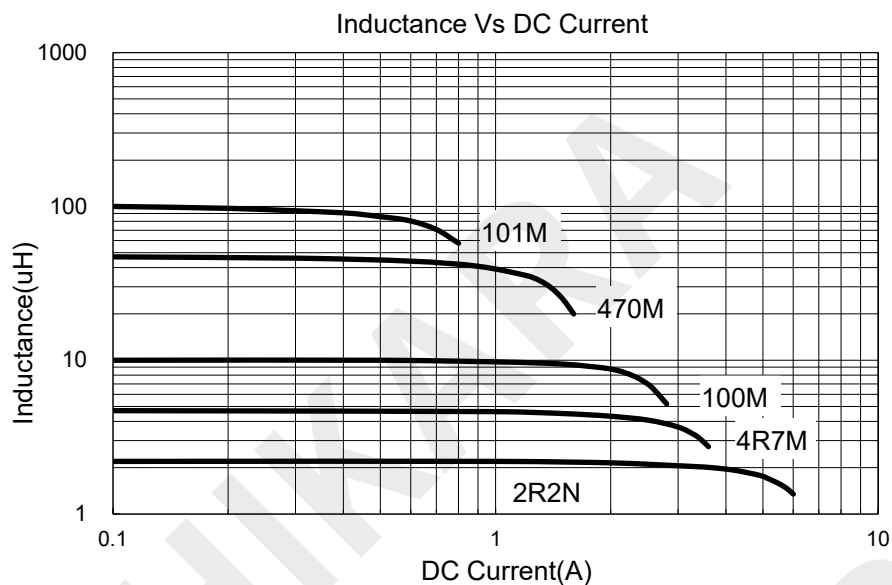


Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (Ω)±30%	Isat		Irms		SRF (MHz)Min.
			(A)Max.	(A)Typ.	(A)Max.	(A)Typ.	
SP06-060028R82N	0.82±30%	0.012	6.50	9.00	5.20	6.00	97
SP06-0600281R0N	1.0±30%	0.010	5.75	7.00	5.20	5.70	70
SP06-0600281R2N	1.2±30%	0.013	6.40	7.50	4.58	5.00	69
SP06-0600281R5N	1.5±30%	0.013	6.00	6.60	4.58	5.00	65
SP06-0600282R2N	2.2±30%	0.020	5.10	5.60	3.75	4.10	48
SP06-0600282R7N	2.7±30%	0.020	3.80	4.10	3.75	4.10	48
SP06-0600283R3M	3.3±20%	0.025	4.15	4.50	3.48	3.80	41
SP06-0600284R7M	4.7±20%	0.030	3.00	3.30	3.08	3.40	35
SP06-0600285R1M	5.1±20%	0.043	3.20	3.50	2.60	2.80	32
SP06-0600286R2M	6.2±20%	0.047	3.05	3.30	2.40	2.60	30
SP06-0600286R8M	6.8±20%	0.047	2.60	3.00	2.40	2.60	27
SP06-0600288R2M	8.2±20%	0.055	2.30	2.50	2.25	2.50	24
SP06-060028100M	10±20%	0.072	2.04	2.50	1.95	2.40	23
SP06-060028120M	12±20%	0.080	1.80	2.00	1.85	2.00	18
SP06-060028150M	15±20%	0.125	1.75	1.90	1.45	1.60	18
SP06-060028180M	18±20%	0.120	1.52	1.80	1.45	1.60	15
SP06-060028220M	22±20%	0.140	1.45	1.80	1.40	1.60	14
SP06-060028270M	27±20%	0.155	1.50	1.60	1.32	1.40	13
SP06-060028330M	33±20%	0.185	1.35	1.50	1.22	1.30	12
SP06-060028360M	36±20%	0.215	1.25	1.40	1.13	1.20	11
SP06-060028390M	39±20%	0.225	1.25	1.40	1.10	1.20	11
SP06-060028470M	47±20%	0.315	1.15	1.30	1.06	1.10	9.5
SP06-060028560M	56±20%	0.345	1.05	1.20	0.89	1.00	8.2
SP06-060028680M	68±20%	0.36	0.80	0.95	0.86	0.95	7.7
SP06-060028750M	75±20%	0.41	0.90	0.99	0.81	0.90	7.7
SP06-060028820M	82±20%	0.50	0.80	0.88	0.70	0.77	7.7
SP06-060028101M	100±20%	0.50	0.65	0.71	0.70	0.77	7.1
SP06-060028401M	400±20%	2.16	0.30	0.33	0.40	0.45	2.8
SP06-060028102M	1000±20%	5.80	0.18	0.22	0.23	0.26	1.5

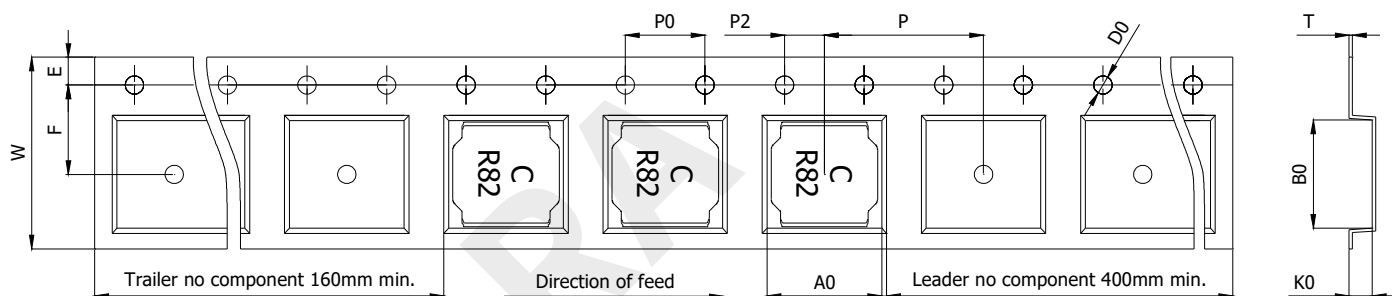
- Test frequency and voltage:100KHz,1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Characteristic Curve (Typical value)



Packaging Specification

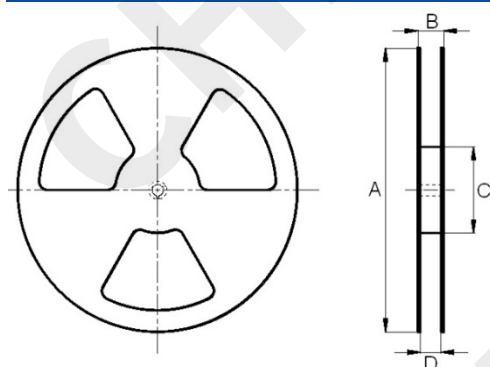
■ Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
16.0±0.3	8.0±0.1	6.4±0.1	6.4±0.1	3.2±0.1	1.75±0.1	7.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.35±0.05

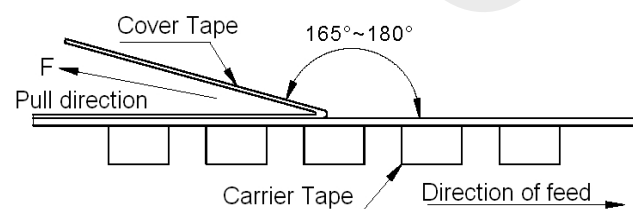
■ Reel (Unit:mm)

A	B	C	D
Φ330±1.0	22.1Max.	Φ100±1.0	16.5±0.5



■ Taping Method

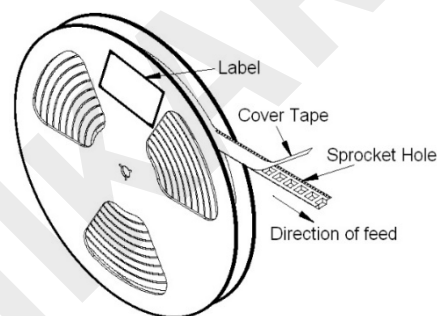
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.



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

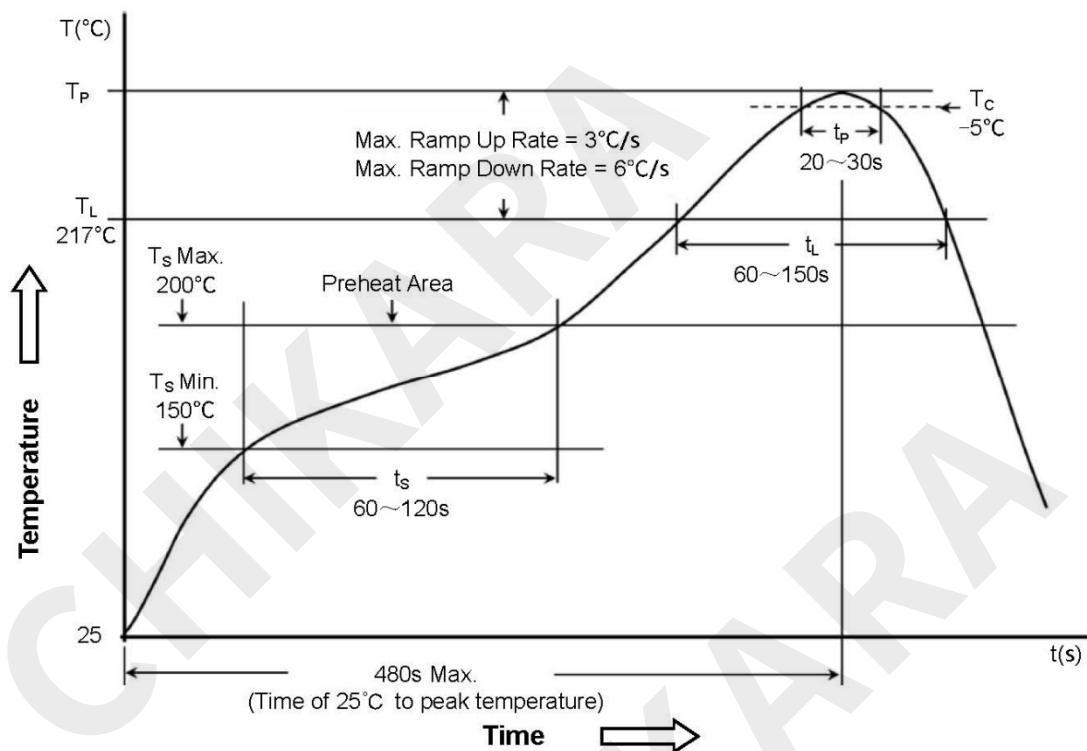
■ Package Quantity

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.