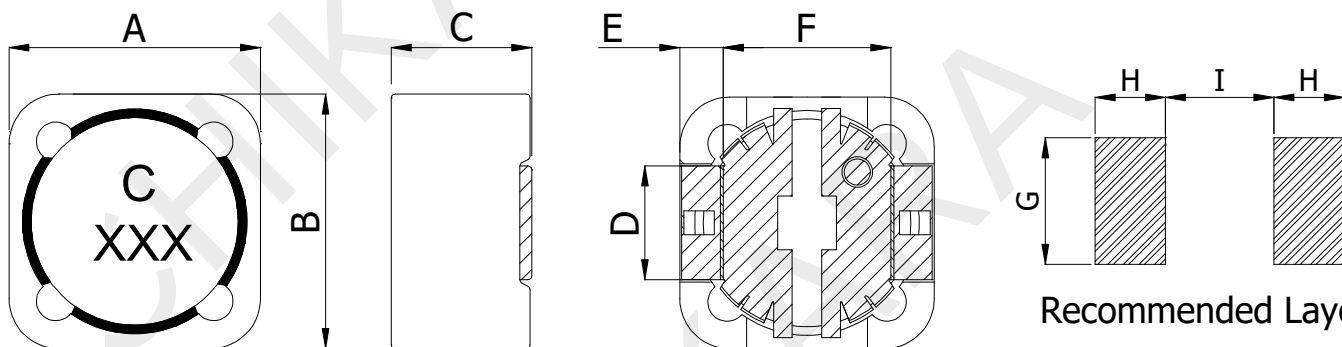


Features

- Magnetically 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:500pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



Recommended Layout

A	B	C	D	E	F	G	H	I
12.3±0.3	12.3±0.3	6.0Max.	4.9±0.2	2.0±0.2	7.9±0.3	5.5	3.85	6.1

Part Number Description

SP05 - 1206 1R0 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

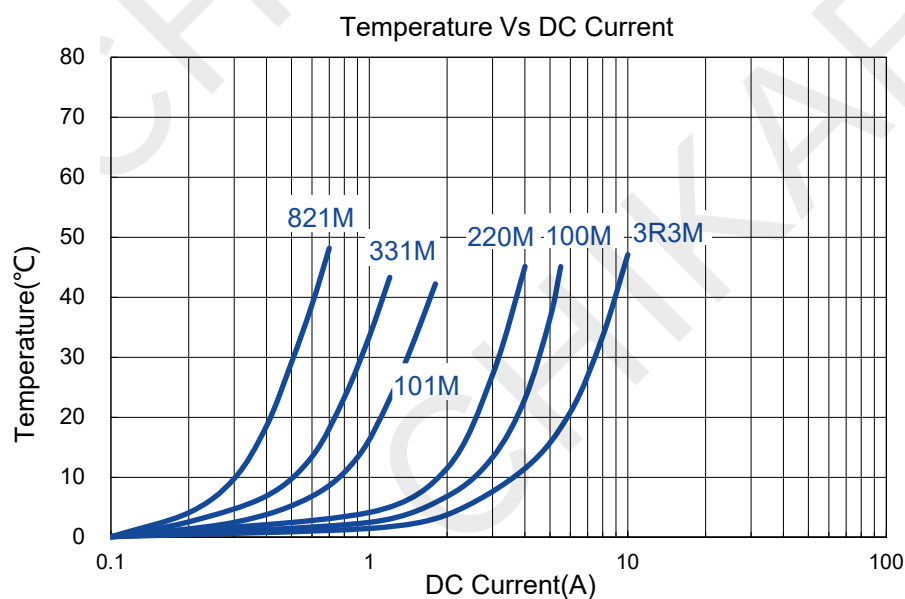
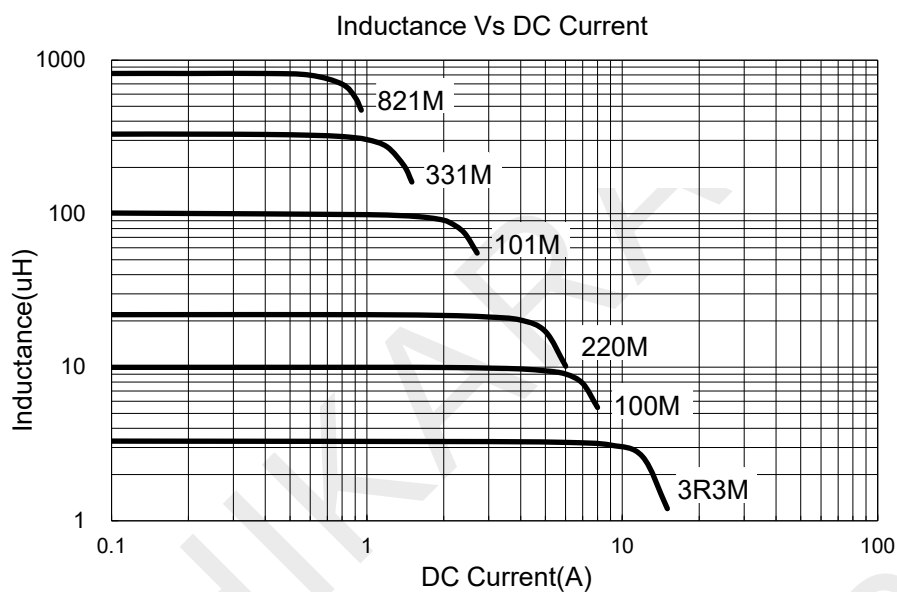


Electrical Characteristic

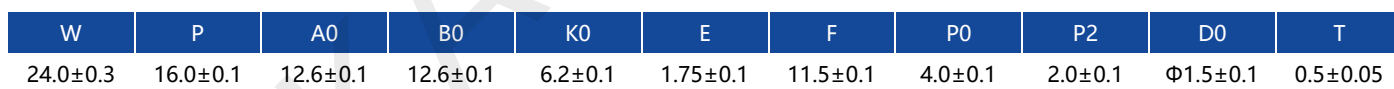
Part Number	Inductance L0(μH)	DCR		Isat (A)Typ.	Irms (A)Typ.	SRF (MHz)Typ.
		(mΩ)Typ.	(mΩ)Max.			
SP05-12061R0N	1.0±30%	2.4	3.1	23.6	15.0	85
SP05-12061R5N	1.5±30%	2.9	3.8	18.3	13.8	63
SP05-12062R2N	2.2±30%	4.5	5.9	15.0	10.9	50
SP05-12063R3M	3.3±20%	6.3	8.2	12.7	9.26	40
SP05-12064R7M	4.7±20%	10.5	13.7	9.71	7.18	35
SP05-12066R8M	6.8±20%	12.3	16.0	8.68	6.64	28
SP05-12068R2M	8.2±20%	17.6	22.9	7.86	5.54	25
SP05-1206100M	10±20%	18.9	24.6	7.17	5.35	22
SP05-1206150M	15±20%	29.8	38.7	5.69	4.27	17
SP05-1206180M	18±20%	37.7	49.0	5.32	3.81	15
SP05-1206220M	22±20%	39.6	51.5	4.71	3.70	13
SP05-1206330M	33±20%	50.5	65.7	3.84	3.28	11
SP05-1206470M	47±20%	74.0	96.0	3.24	2.71	9.0
SP05-1206560M	56±20%	102	133	3.00	2.31	8.0
SP05-1206680M	68±20%	101	131	2.70	2.22	7.5
SP05-1206820M	82±20%	128	166	2.39	2.05	7.0
SP05-1206101M	100±20%	170	221	2.20	1.78	6.7
SP05-1206151M	150±20%	248	322	1.81	1.48	4.5
SP05-1206221M	220±20%	384	499	1.51	1.19	3.8
SP05-1206331M	330±20%	482	627	1.22	1.06	3.0
SP05-1206471M	470±20%	718	933	1.02	0.87	2.5
SP05-1206681M	680±20%	1100	1430	0.85	0.70	2.2
SP05-1206821M	820±20%	1490	1937	0.77	0.60	2.0
SP05-1206102K	1000±10%	1690	2197	0.70	0.57	1.9
SP05-1206472K	4700±10%	7530	9789	0.32	0.268	1.1
SP05-1206124K	120000±10%	150000	195000	0.069	0.060	0.2

- 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)



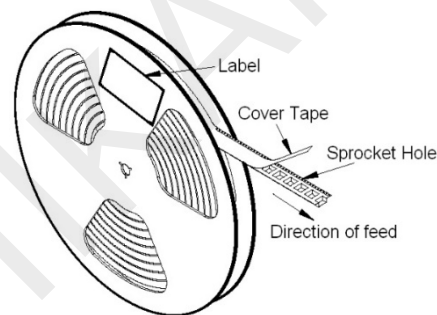
- Carrier Tape (Unit:mm)



A	B	C	D
Φ330±1.0	28.9Max.	Φ100±1.0	24.5±0.5



Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.0N	165°~180°	300mm/min.



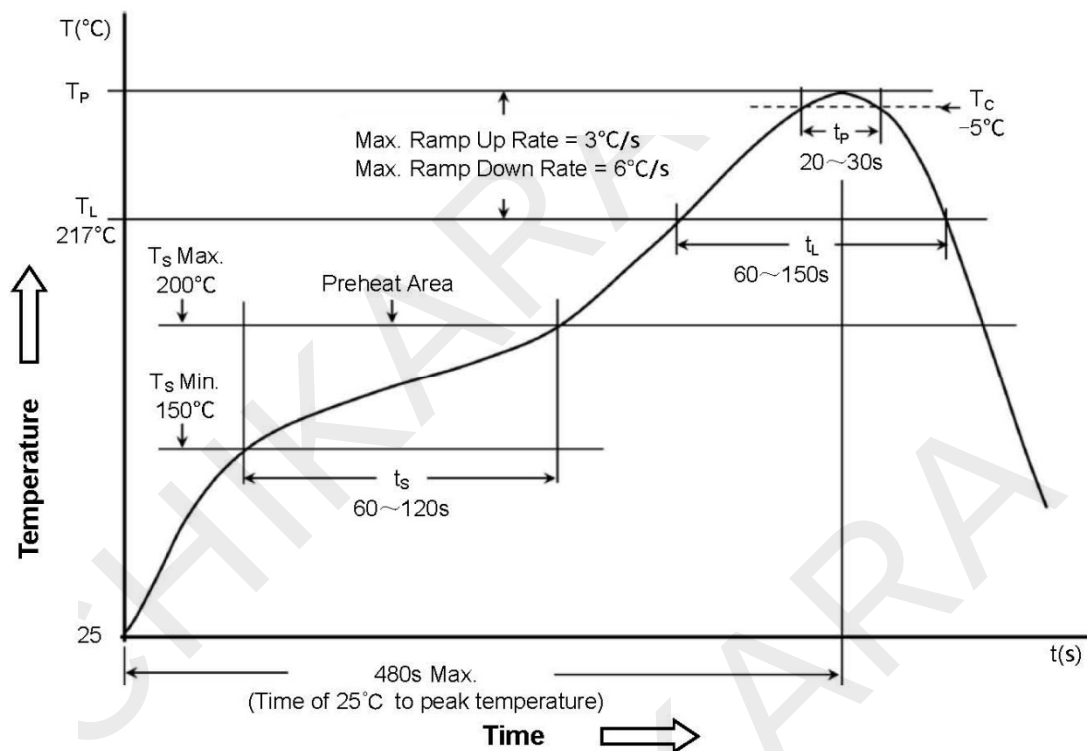
※ Packing is referred to the international standard IEC 60286-3.

Parts per reel

500Pcs

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.