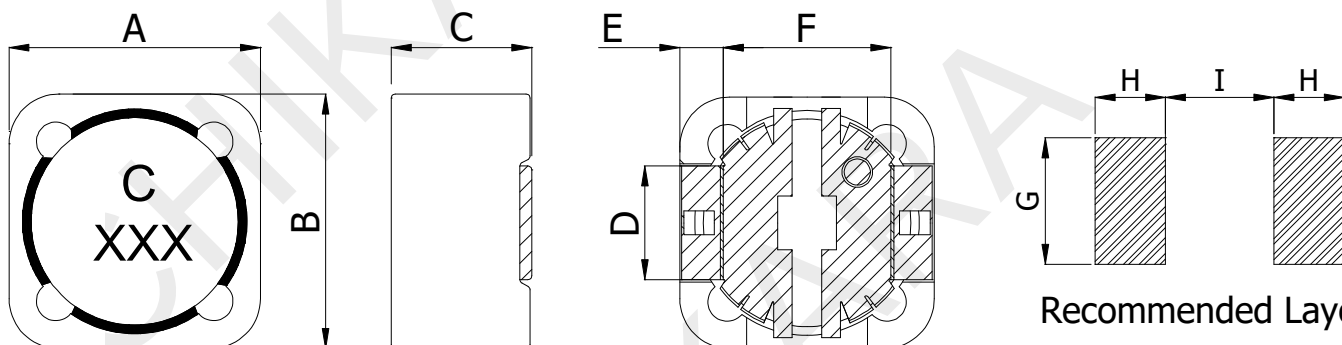


Features

- 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:800pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
12.3±0.3	12.3±0.3	4.5Max.	4.9±0.2	2.0±0.2	7.9±0.3	5.5	3.85	6.1

Part Number Description

SP05 - 1204 R60 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

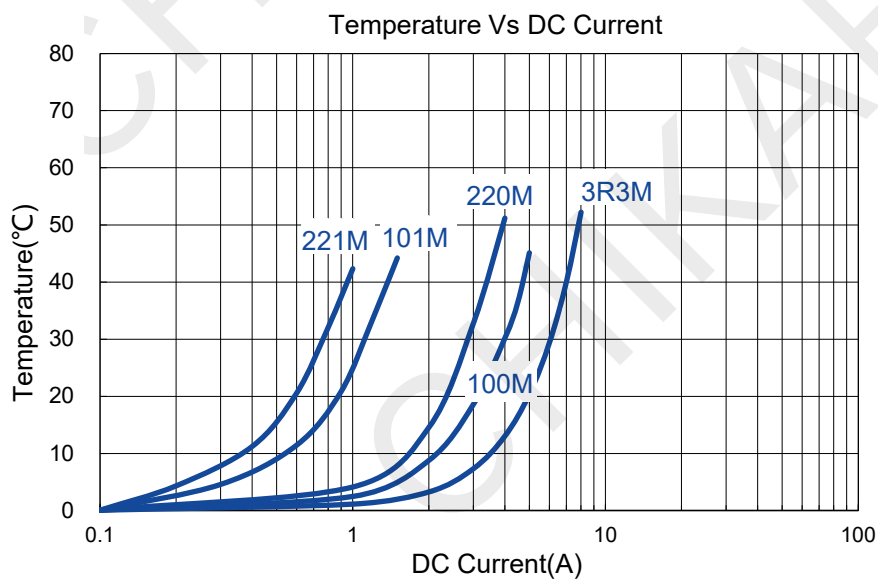
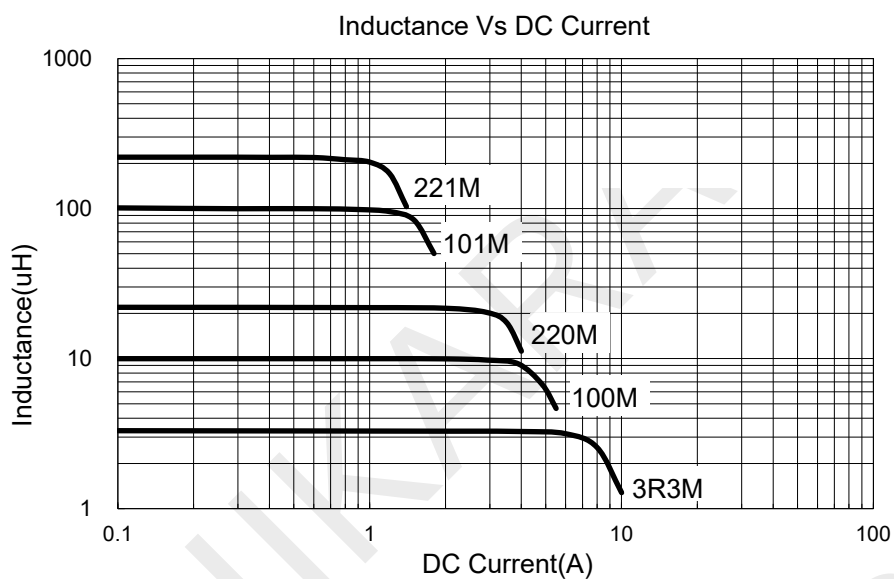


Electrical Characteristic

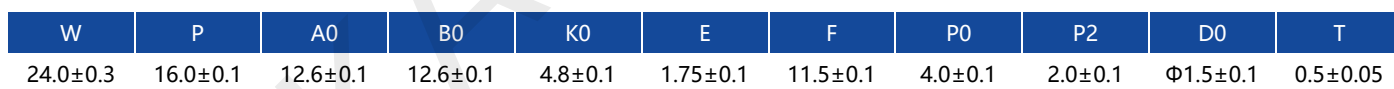
Part Number	Inductance L0(μH)	DCR		Isat (A)Typ.	Irms (A)Typ.	SRF (MHz)Typ.
		(mΩ)Typ.	(mΩ)Max.			
SP05-1204R60N	0.6±30%	4.5	5.5	20.5	13.5	160
SP05-12041R0N	1.0±30%	5.5	7.0	15.5	12.0	98
SP05-12041R8N	1.8±30%	7.5	9.5	11.0	8.80	76
SP05-12042R5N	2.5±30%	8.5	11.0	9.50	7.60	50
SP05-12043R3M	3.3±20%	11.5	13.0	8.40	7.00	40
SP05-12044R7M	4.7±20%	13.5	16.0	7.40	6.50	38
SP05-12046R8M	6.8±20%	20.0	25.0	5.50	5.80	27
SP05-1204100M	10±20%	25.0	30.0	5.00	4.90	22
SP05-1204120M	12±20%	30.0	38.0	4.25	4.50	19
SP05-1204180M	18±20%	37.0	51.0	3.80	3.70	17
SP05-1204220M	22±20%	45.0	65.0	3.65	3.40	15
SP05-1204330M	33±20%	75.0	85.0	3.00	2.90	13
SP05-1204470M	47±20%	105.0	125.0	2.50	2.10	9.7
SP05-1204101M	100±20%	250.0	270.0	1.65	1.40	7.0
SP05-1204221M	220±20%	460.0	480.0	1.18	0.95	4.8

- 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)

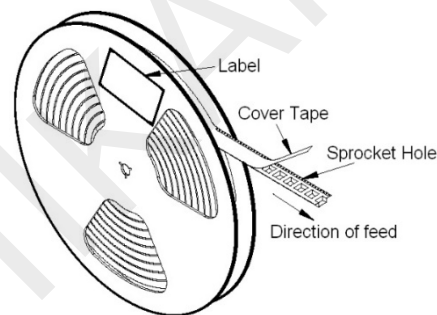


- Reel (Unit:mm)

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.

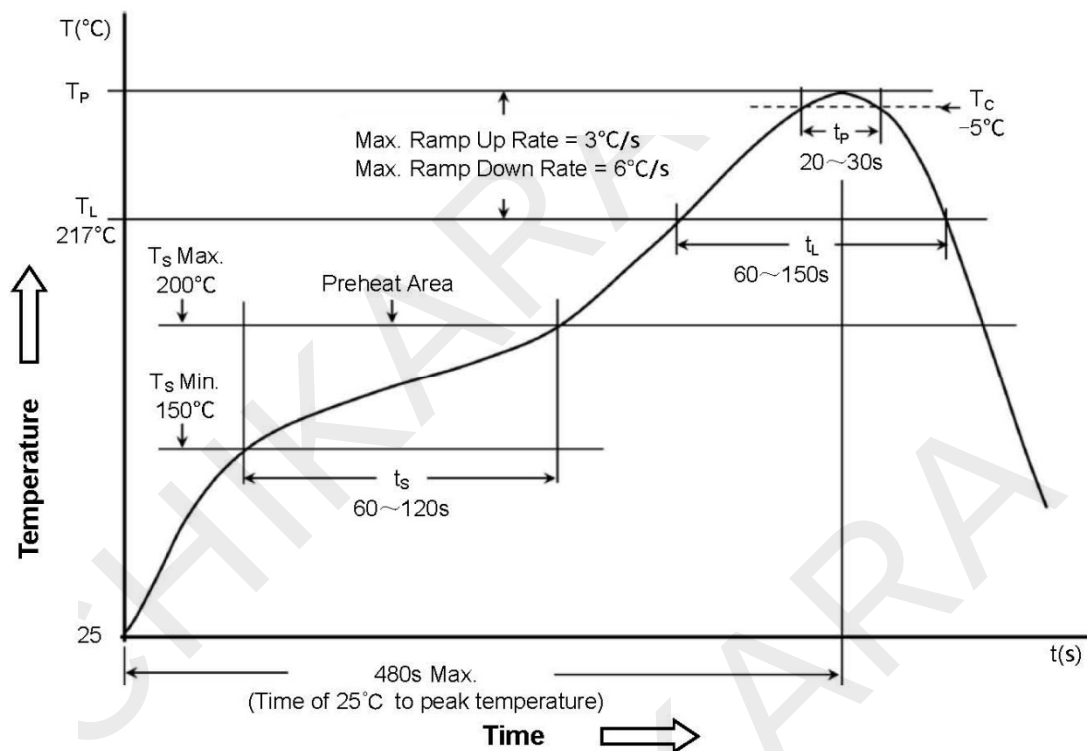
- Package Quantity

Parts per reel

800Pcs

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.