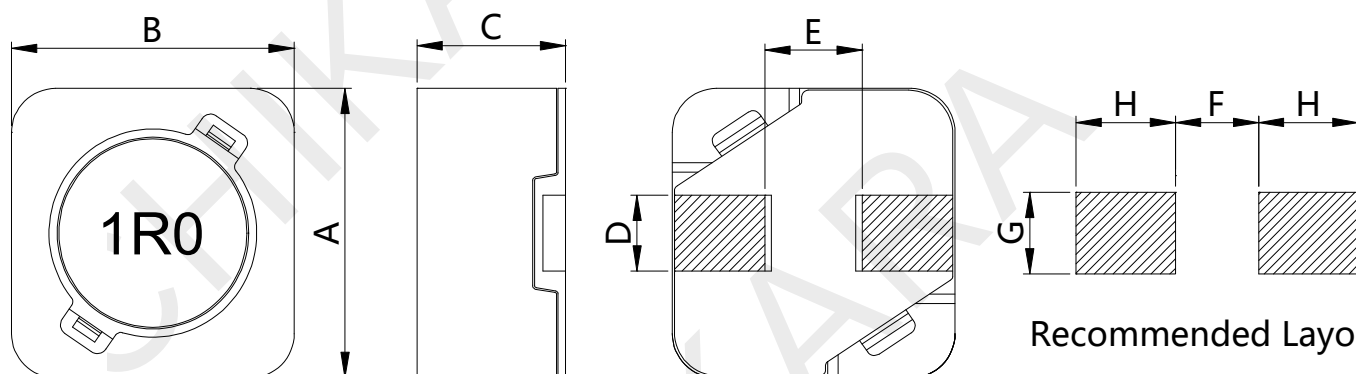


Features

- 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:1000pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H
6.2±0.3	5.9±0.3	5.1Max.	1.5±0.1	2.8±0.1	2.5	1.9	1.85

Part Number Description

SP04 - 0605 B 1R0 P
① ② ③ ④ ⑤

①	Type
②	Dimensions
③	Special code
④	Inductance value
⑤	Tolerance code

Electrical Schematic

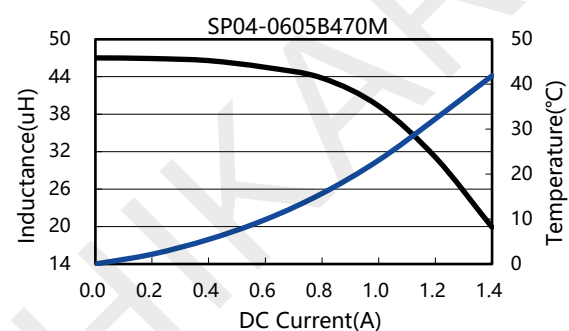
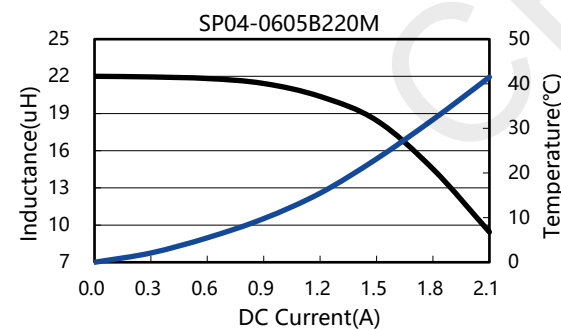
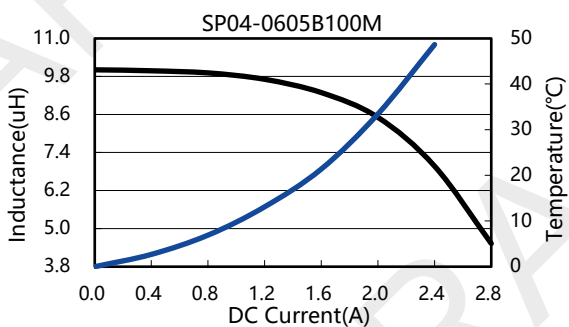
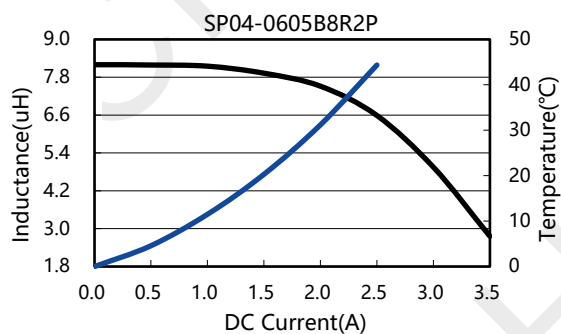
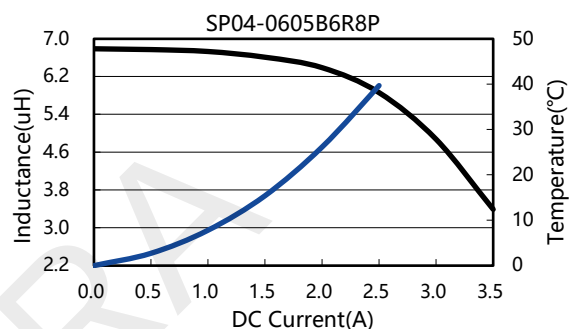
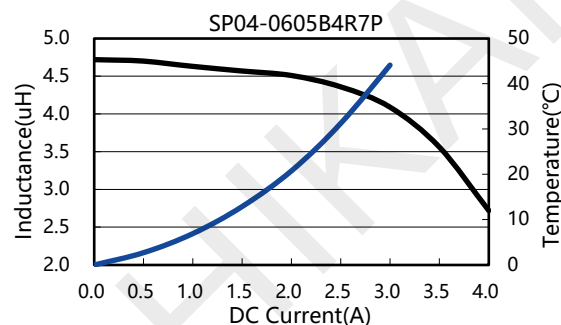
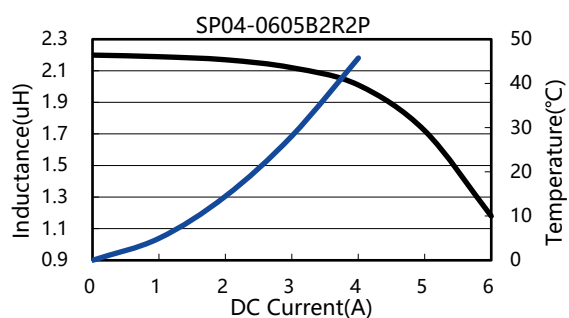
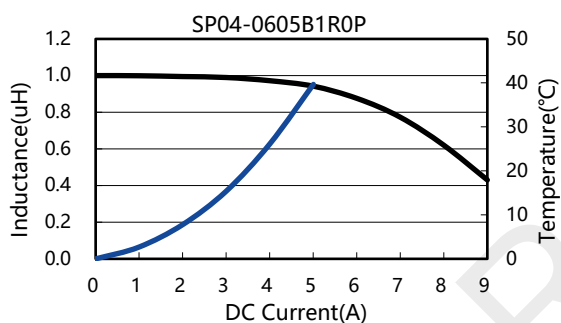


Electrical Characteristic

Part Number	Inductance L0(uH)	DCR		Isat	Irms	SRF
		(mΩ)Typ.	(mΩ)Max.	(A)Typ.	(A)Typ.	(MHz)Typ.
SP04-0605B1R0P	1.0±25%	28.0	34.0	7.20	5.00	180
SP04-0605B2R2P	2.2±25%	40.0	49.0	5.30	3.50	115
SP04-0605B4R7P	4.7±25%	57.0	65.0	3.70	2.80	60
SP04-0605B6R8P	6.8±25%	62.0	75.0	3.00	2.50	43
SP04-0605B8R2P	8.2±25%	66.0	80.0	2.75	2.30	40
SP04-0605B100M	10±20%	74.0	88.0	2.40	2.10	35
SP04-0605B220M	22±20%	98.0	115	1.40	2.00	15
SP04-0605B470M	47±20%	260	295	1.05	1.40	10

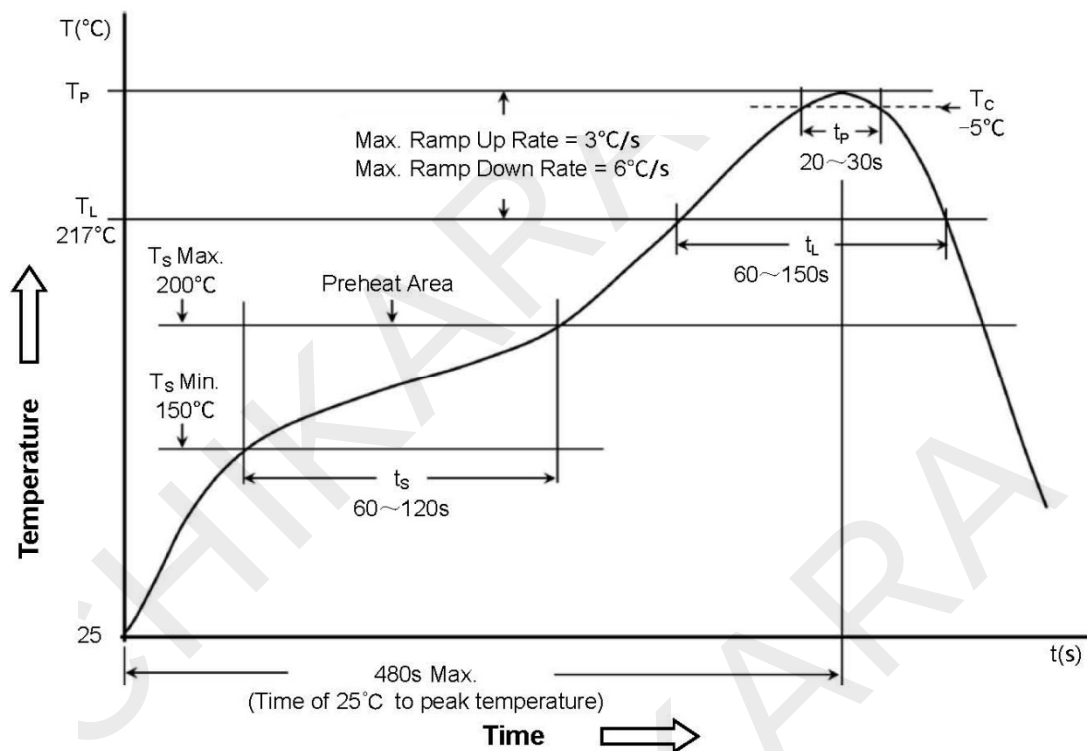
- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Characteristic Curve (Typical value)



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.