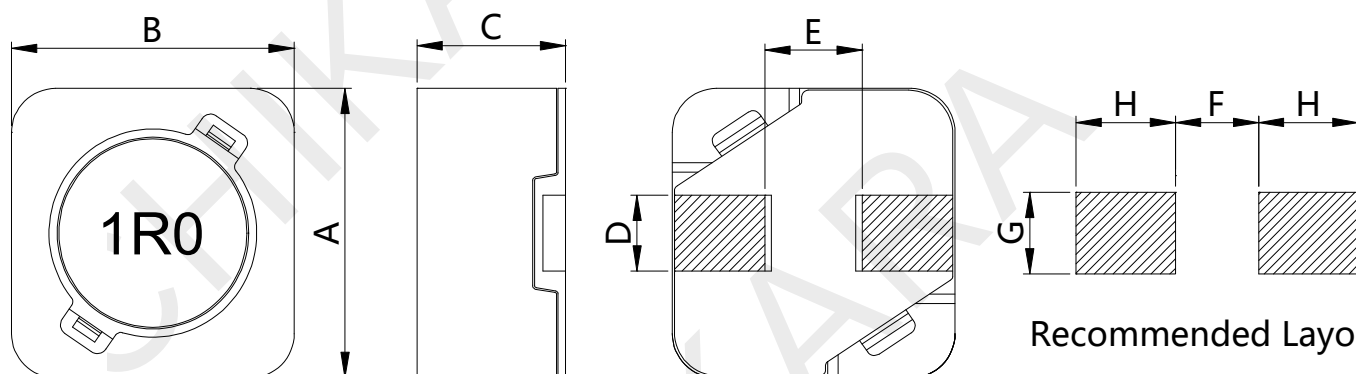


Features

- 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:1500pcs. 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	3.3Max.	1.5±0.1	2.8±0.1	2.5	1.9	1.85

Part Number Description

SP04 - 0603 B 1R0 P
① ② ③ ④ ⑤

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

Electrical Schematic

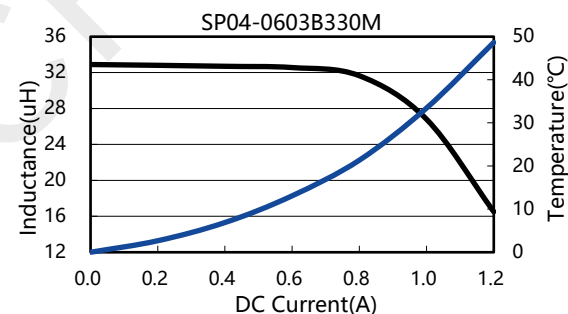
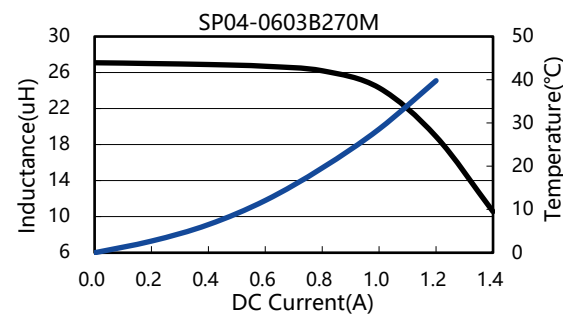
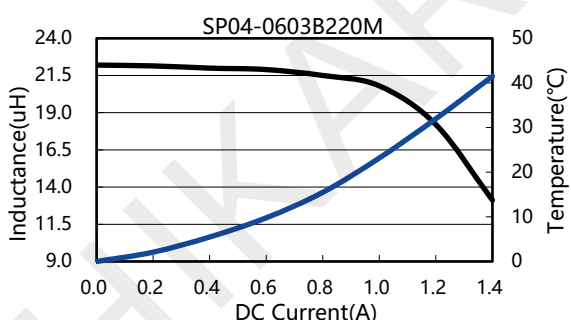
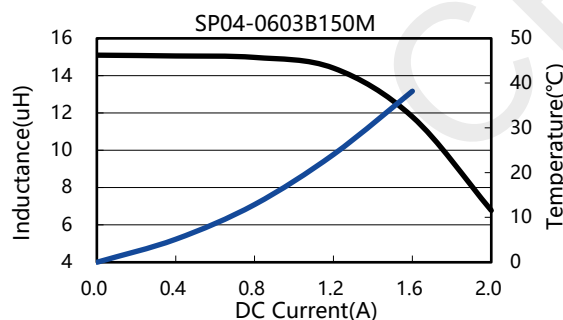
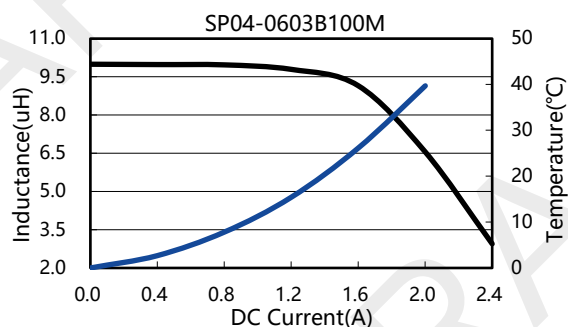
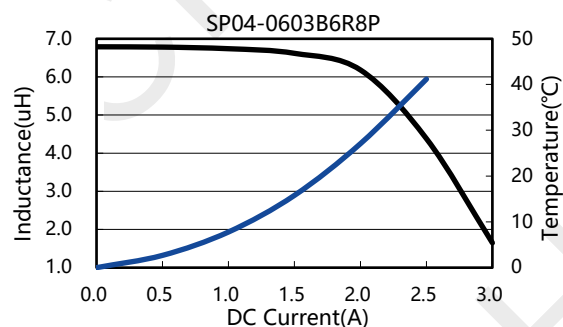
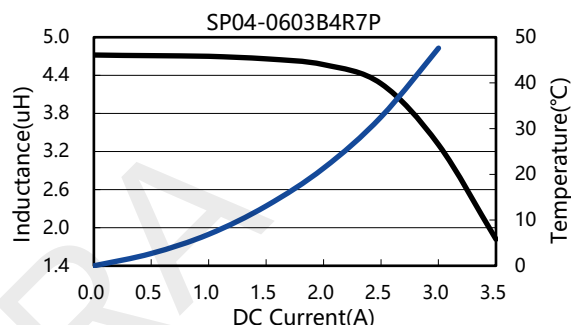
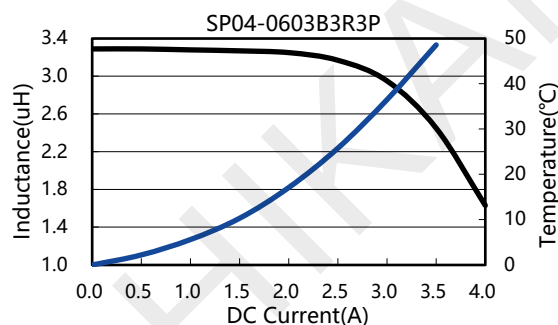
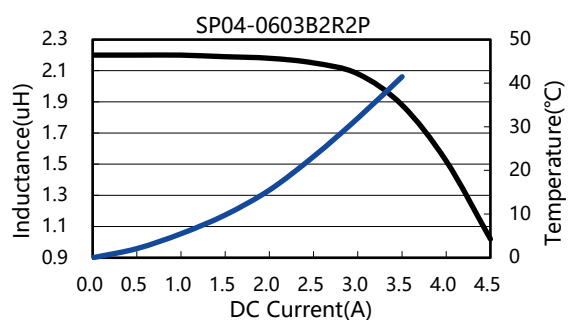
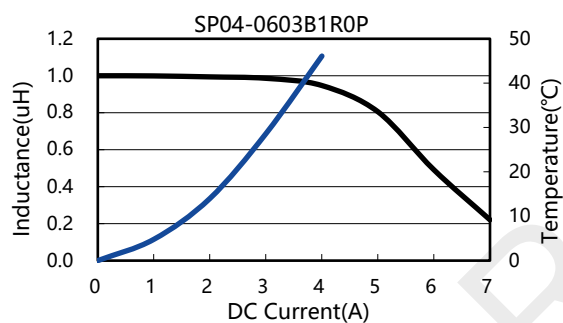


Electrical Characteristic

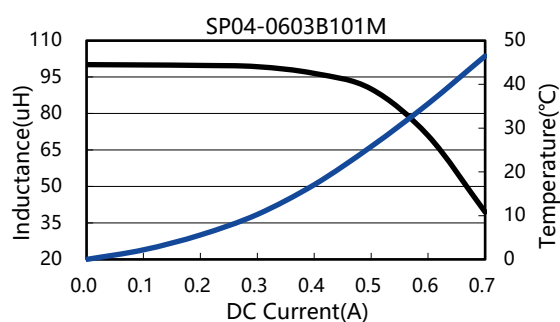
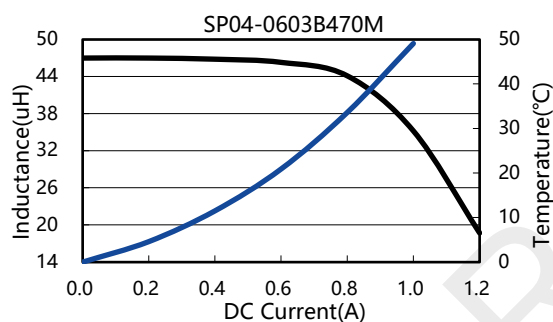
Part Number	Inductance L0(uH)	DCR		Isat	Irms	SRF
		(mΩ)Typ.	(mΩ)Max.	(A)Typ.	(A)Typ.	(MHz)Typ.
SP04-0603B1R0P	1.0±25%	31.0	39.0	5.40	3.75	190
SP04-0603B2R2P	2.2±25%	43.0	54.0	4.00	3.30	88
SP04-0603B3R3P	3.3±25%	53.0	67.0	3.60	3.15	60
SP04-0603B4R7P	4.7±25%	60.0	78.0	3.00	2.65	53
SP04-0603B6R8P	6.8±25%	79.0	100	2.40	2.30	45
SP04-0603B100M	10±20%	100	125	1.90	2.00	37
SP04-0603B150M	15±20%	165	200	1.65	1.60	28
SP04-0603B220M	22±20%	210	250	1.30	1.35	23
SP04-0603B270M	27±20%	300	360	1.20	1.15	19
SP04-0603B330M	33±20%	340	400	1.05	1.05	17
SP04-0603B470M	47±20%	500	600	0.90	0.85	16
SP04-0603B101M	100±20%	950	1060	0.60	0.65	11

- 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)

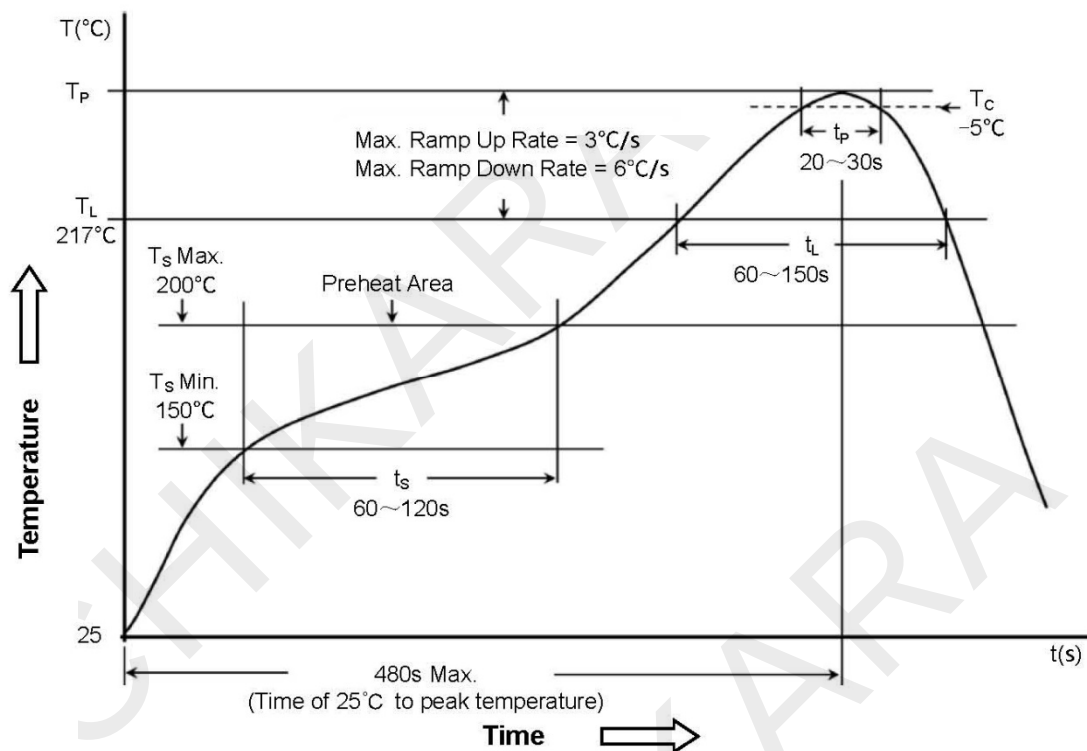


Characteristic Curve (Typical value)



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.