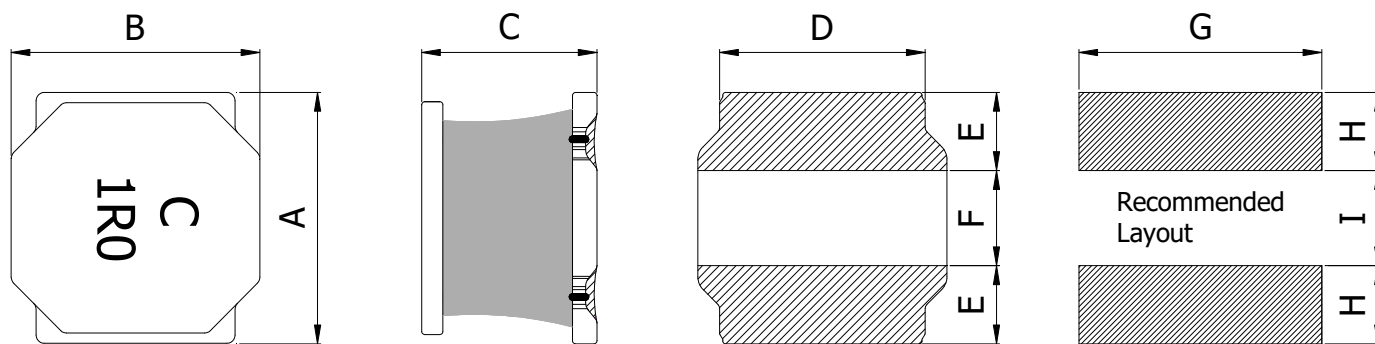


Features

- 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:900pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
8.0±0.3	8.0±0.3	5.0±0.3	6.3±0.3	2.0	4.0	7.5	2.2	3.8

Part Number Description

SP06 - 080050 1R0 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

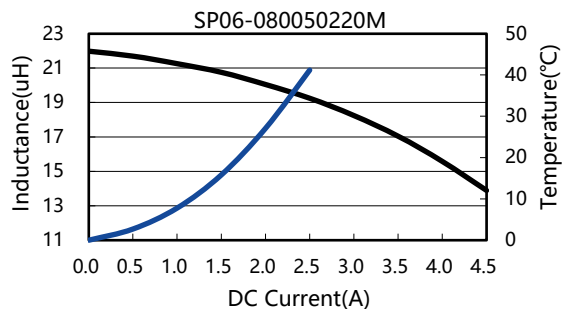
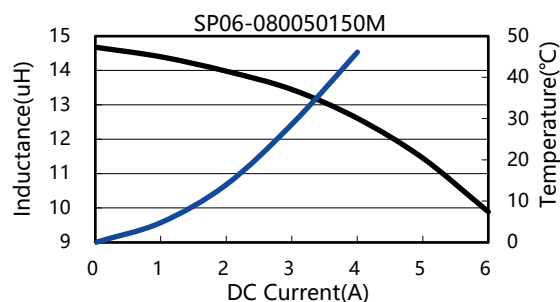
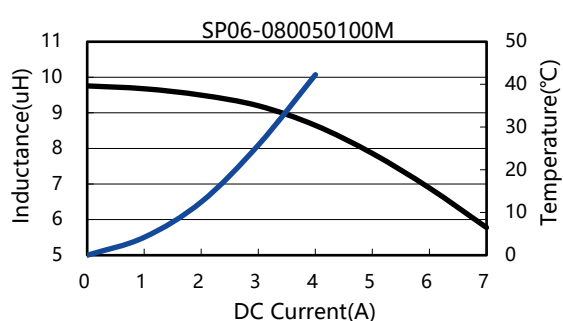
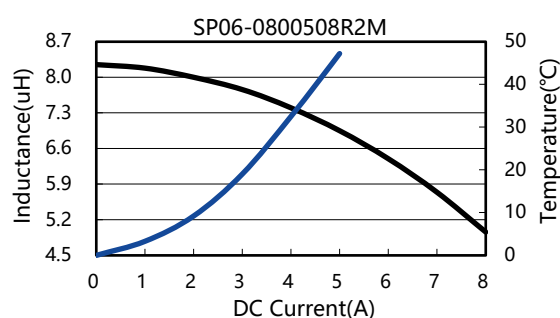
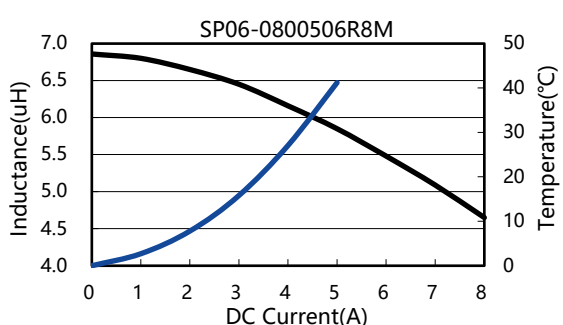
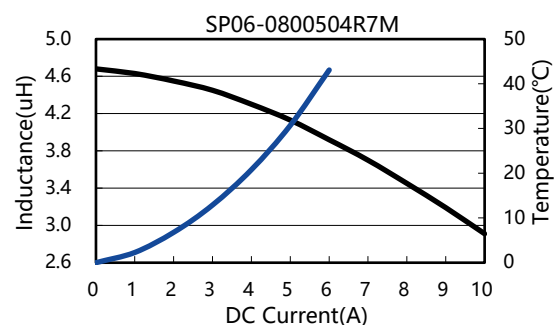
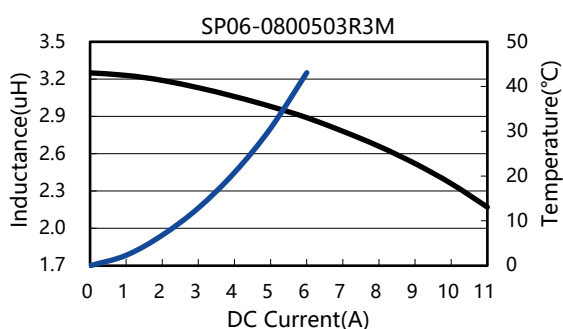
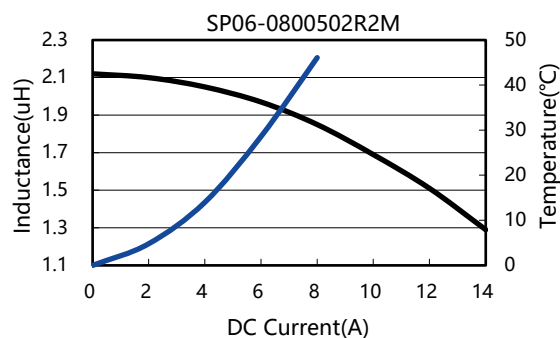
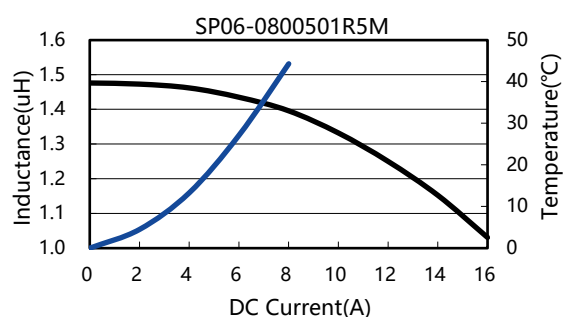
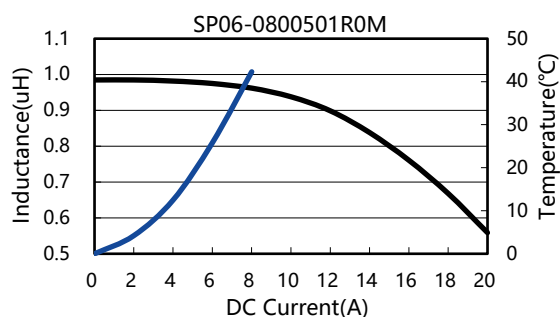


Electrical Characteristic

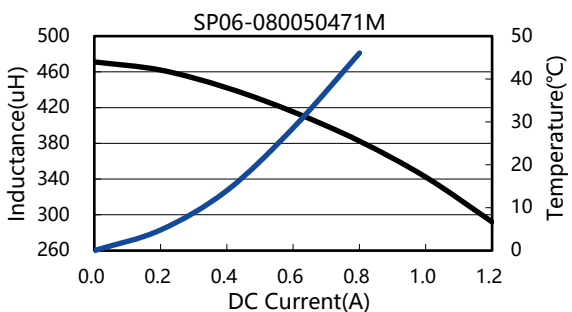
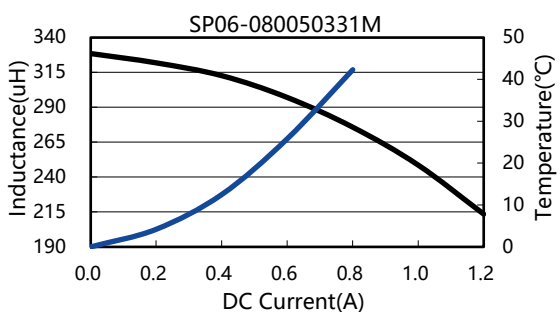
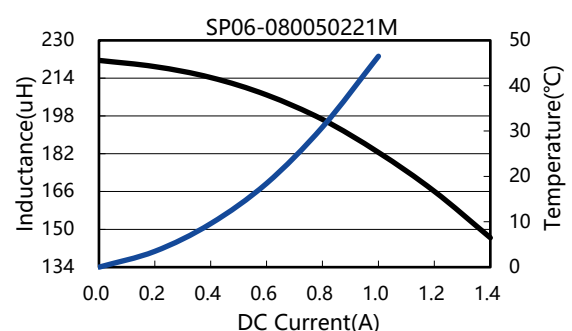
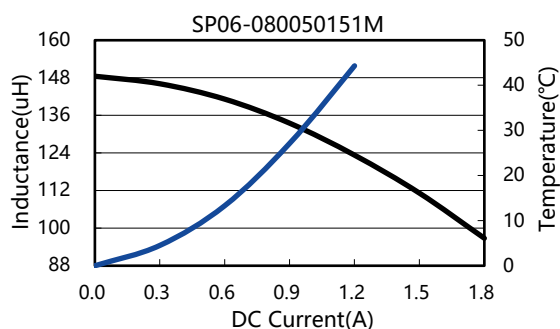
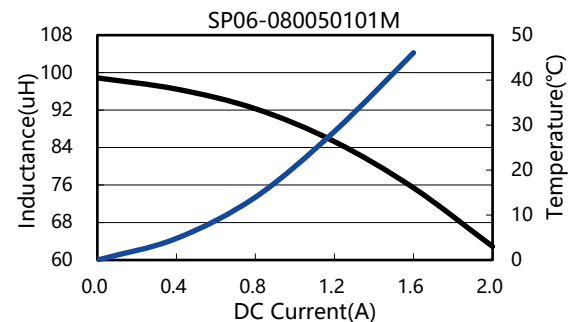
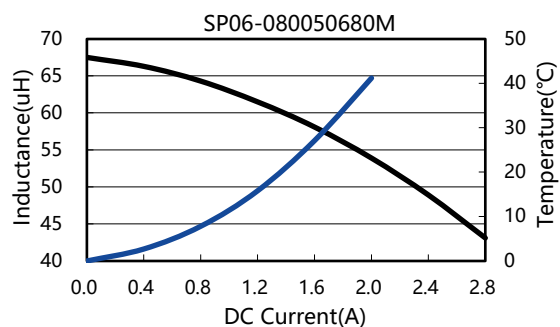
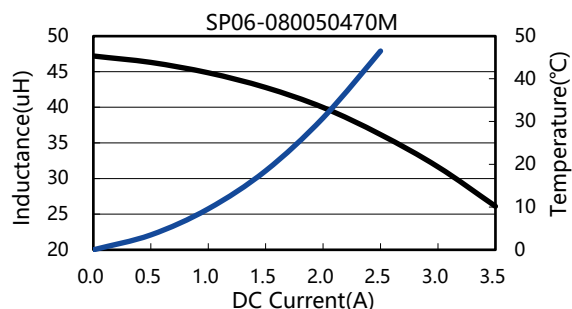
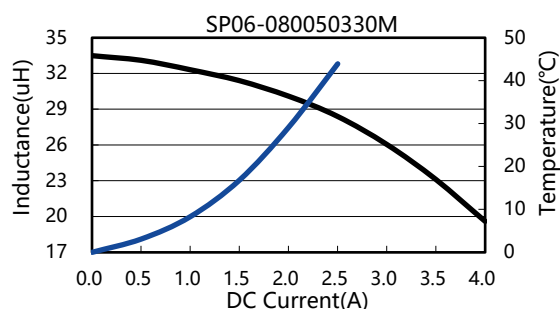
Part Number	Inductance L0(uH)	DCR (mΩ)Max.	Isat (A)Typ.	Irms (A)Typ.	SRF (MHz)Typ.
SP06-0800501R0M	1.0±20%	10	16.00	7.20	99
SP06-0800501R5M	1.5±20%	12	13.00	6.50	79
SP06-0800502R2M	2.2±20%	14	11.00	5.80	59
SP06-0800503R3M	3.3±20%	20	9.00	4.90	24
SP06-0800504R7M	4.7±20%	23	7.50	4.60	23
SP06-0800506R8M	6.8±20%	29	6.10	4.20	19
SP06-0800508R2M	8.2±20%	35	5.60	3.80	18
SP06-080050100M	10±20%	38	5.20	3.60	14
SP06-080050150M	15±20%	61	4.50	2.70	13
SP06-080050220M	22±20%	88	3.50	2.20	9.0
SP06-080050330M	33±20%	122	3.00	2.00	7.6
SP06-080050470M	47±20%	173	2.40	1.70	6.6
SP06-080050680M	68±20%	252	2.00	1.45	5.4
SP06-080050101M	100±20%	326	1.60	1.25	4.4
SP06-080050151M	150±20%	480	1.40	1.00	3.2
SP06-080050221M	220±20%	708	1.10	0.75	2.9
SP06-080050331M	330±20%	1044	0.90	0.65	2.3
SP06-080050471M	470±20%	1540	0.80	0.55	1.9

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

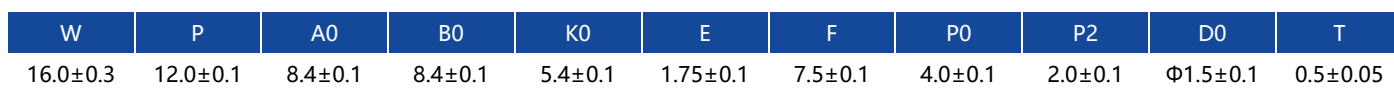
Characteristic Curve (Typical value)



Characteristic Curve (Typical value)



- Carrier Tape (Unit:mm)

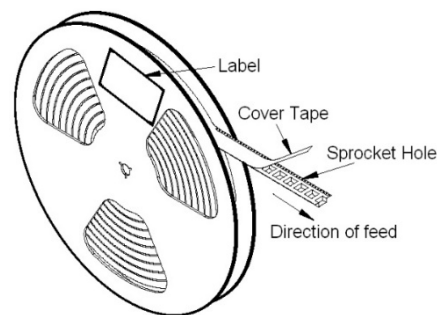


- Reel (Unit:mm)

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



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



✘ The allowable number of empty chip cavities Maximum two (2) chip cavities missing product may exist in a reel but they may not be consecutive two cavities.

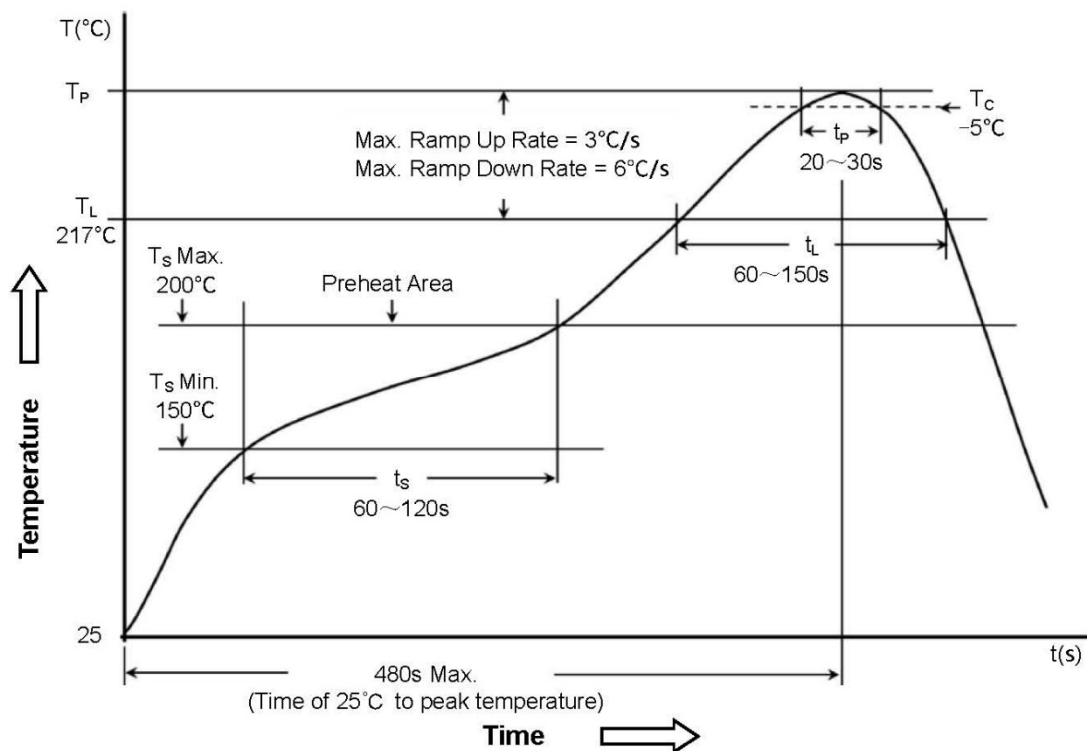
- Package Quantity

Parts per reel

900Pcs

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