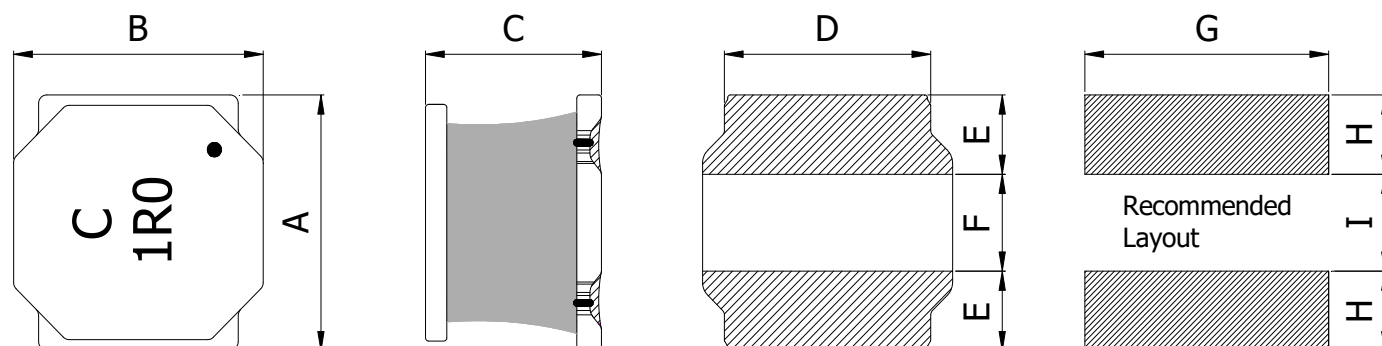


Features

- 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:700pcs. 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	6.3±0.2	6.3±0.3	2.0	4.0	7.5	2.4	3.8

Part Number Description

SP06 - 080065 100 M

① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



Part Marking

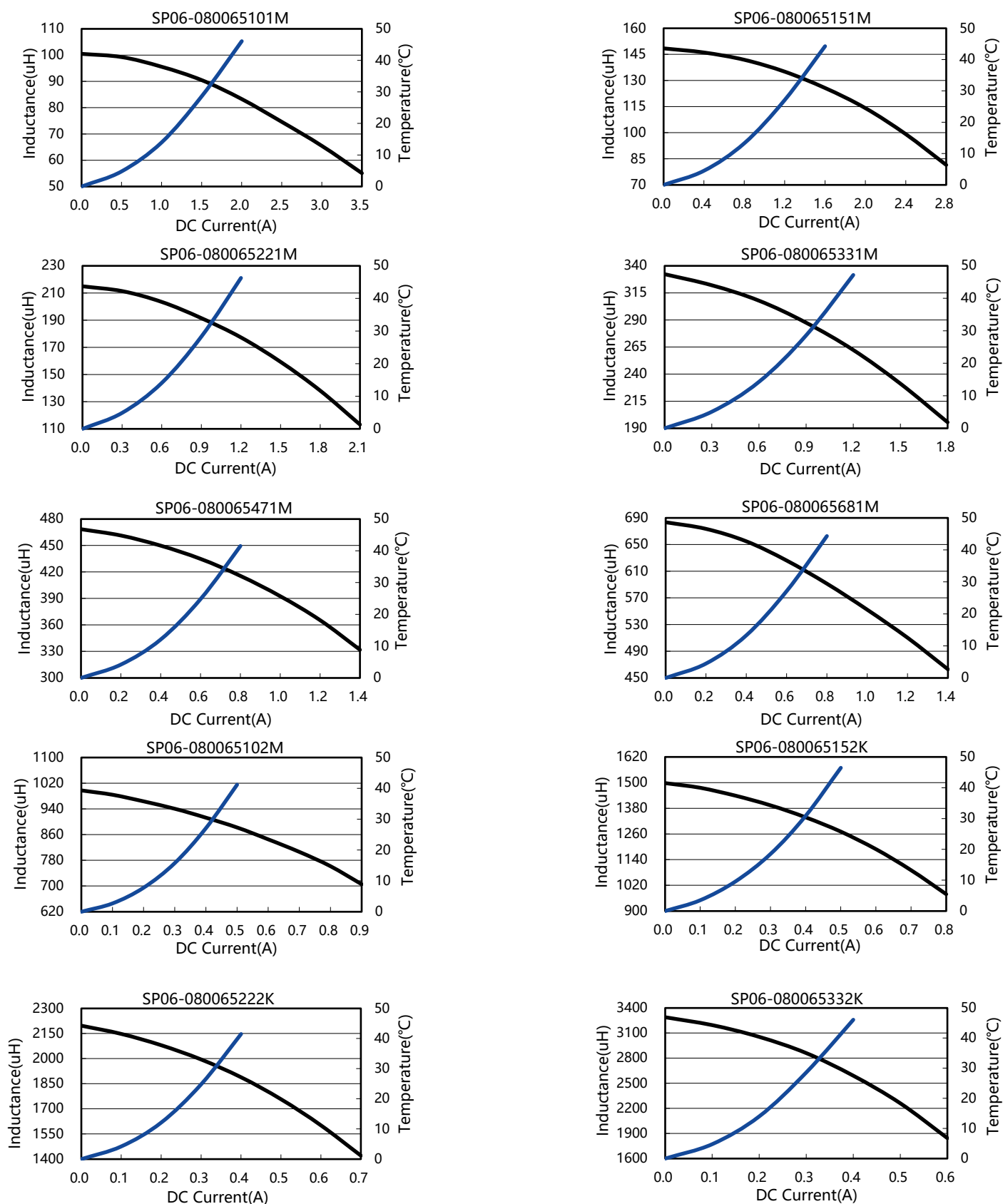
- Indicates start of winding

Electrical Characteristic

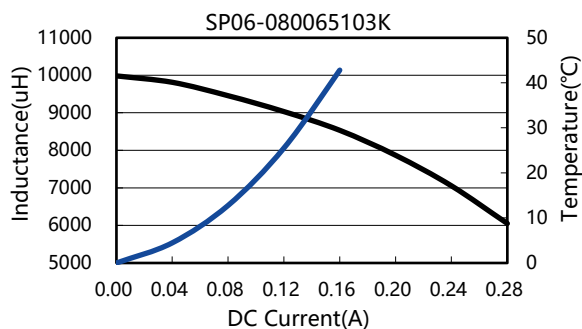
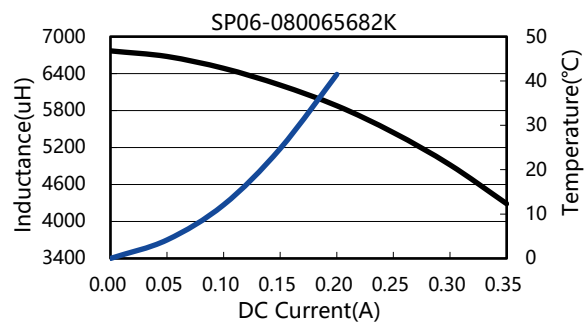
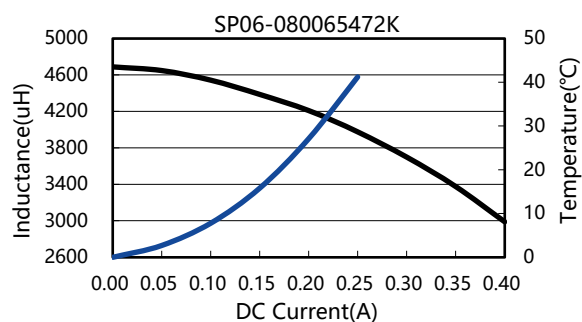
Part Number	Inductance L0(uH)	DCR (mΩ)±20%	Isat (A)Typ.	Irms (A)Typ.	SRF (MHz)Typ.
SP06-080065101M	100±20%	238	2.15	1.35	4.00
SP06-080065151M	150±20%	355	1.80	1.20	3.20
SP06-080065221M	220±20%	555	1.44	0.95	2.80
SP06-080065331M	330±20%	698	1.12	0.85	2.30
SP06-080065471M	470±20%	1200	1.08	0.65	1.80
SP06-080065681M	680±20%	1650	1.00	0.53	1.60
SP06-080065102M	1000±20%	2350	0.65	0.48	1.39
SP06-080065152K	1500±10%	3650	0.54	0.36	1.13
SP06-080065222K	2200±10%	5000	0.45	0.31	0.93
SP06-080065332K	3300±10%	7300	0.36	0.24	0.76
SP06-080065472K	4700±10%	12150	0.29	0.19	0.62
SP06-080065682K	6800±10%	18700	0.26	0.14	0.51
SP06-080065103K	10000±10%	22800	0.20	0.13	0.41

- 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)

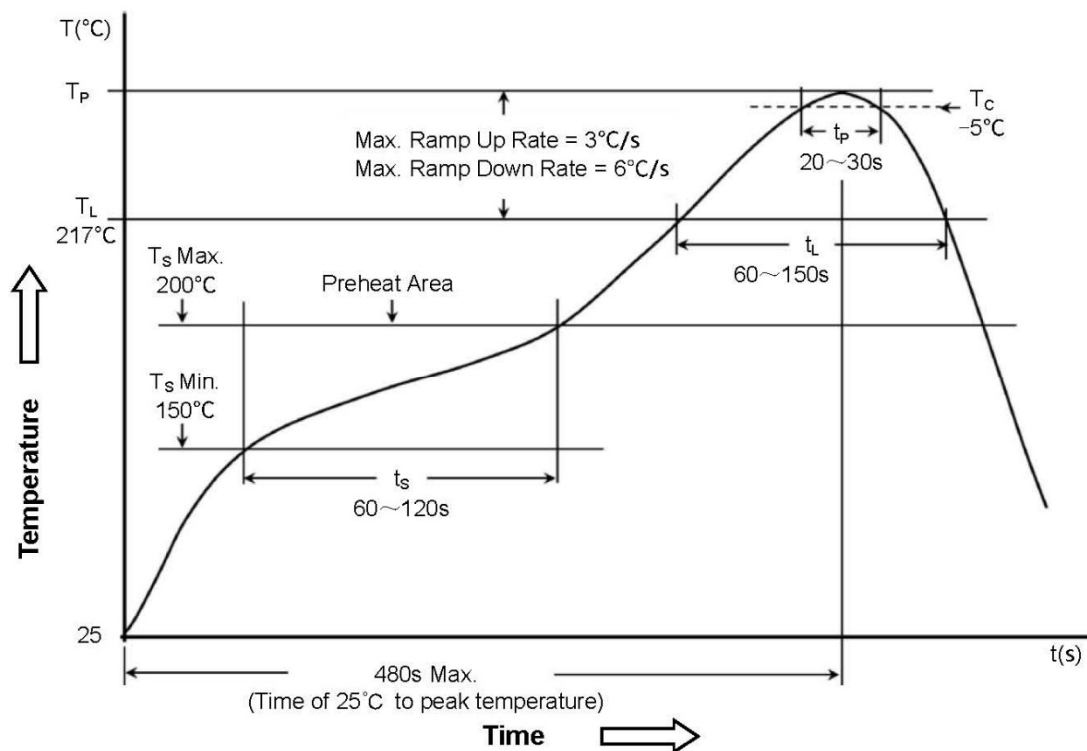


Characteristic Curve (Typical value)



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