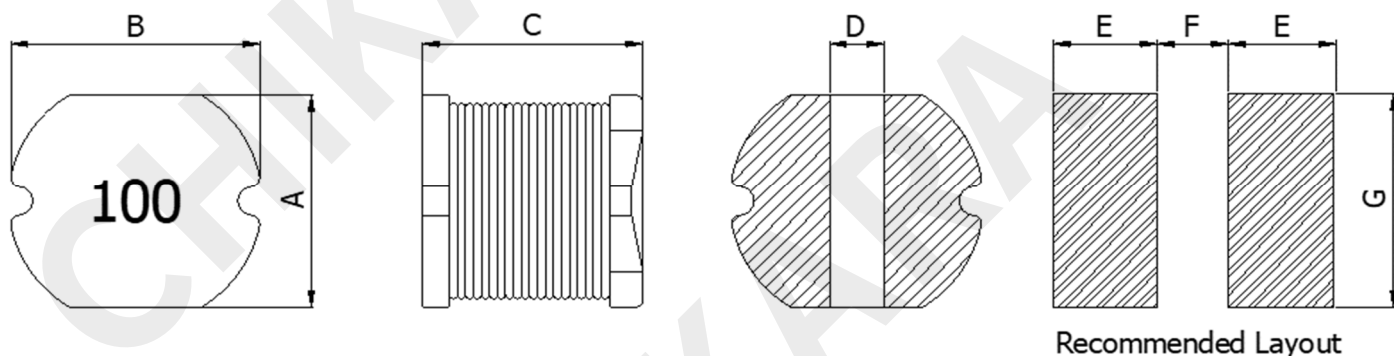


Features

- Low DC resistance and high current
- 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:650pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G
7.0±0.3	Φ7.8±0.3	8.0±0.5	2.6	3.0	2.0	7.5

Part Number Description

SP03 - 0808 A 100 M

① ② ③ ④ ⑤

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

Electrical Schematic

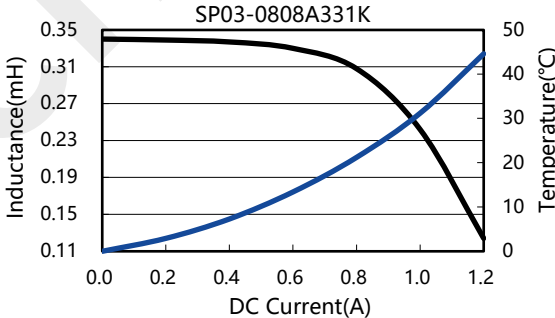
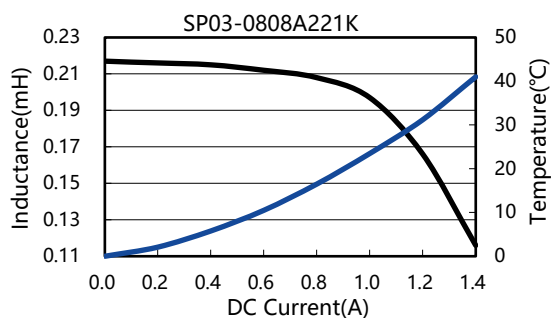
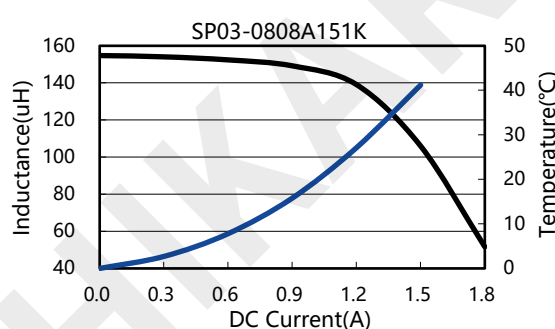
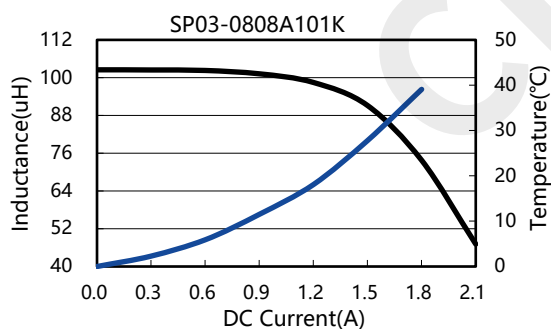
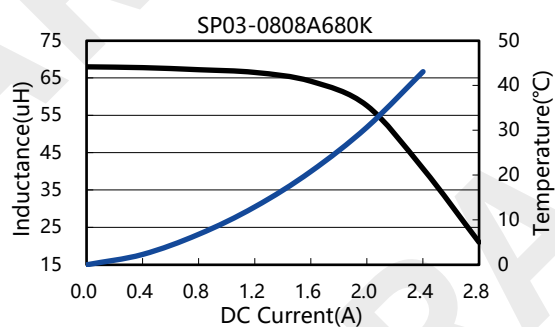
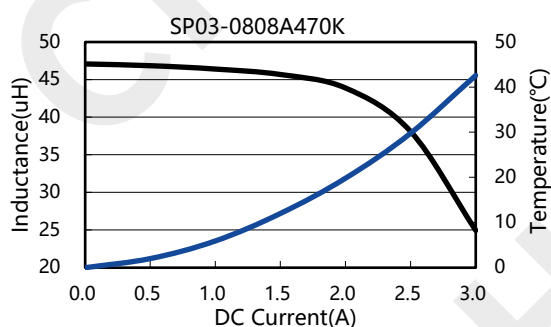
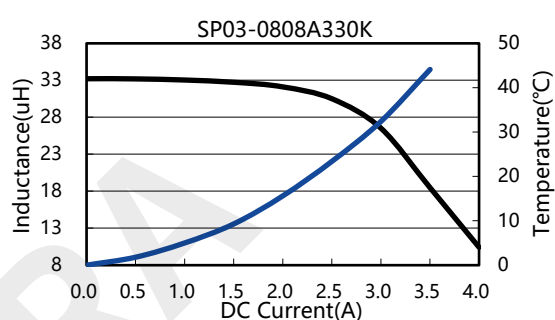
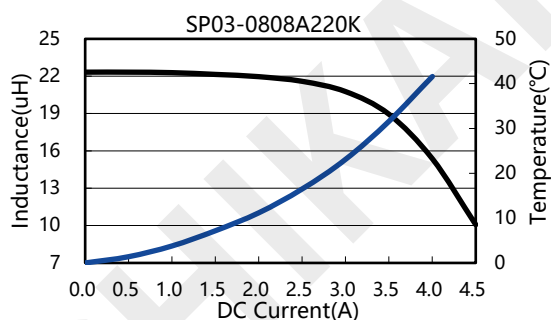
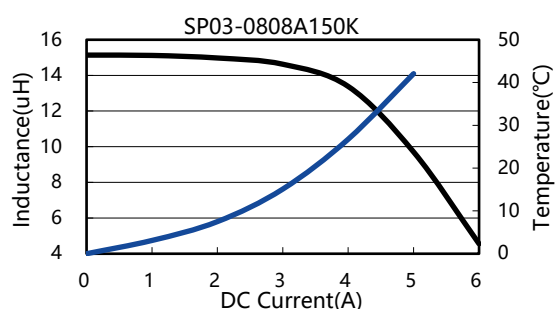
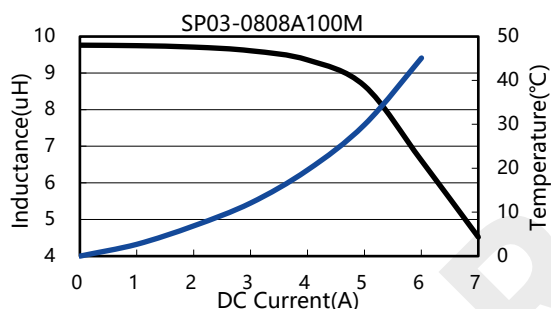


Electrical Characteristic

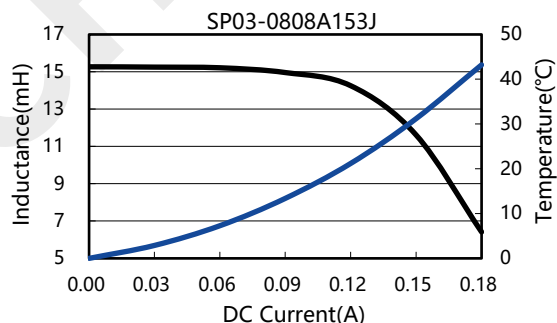
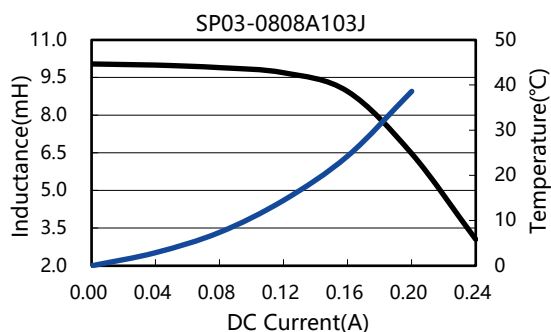
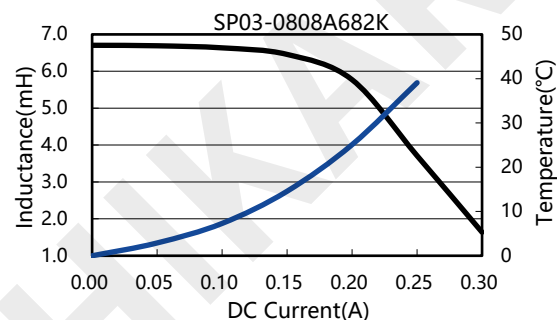
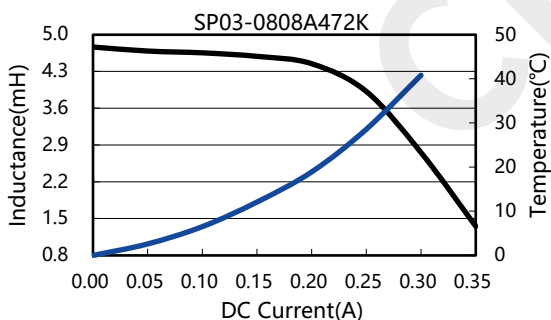
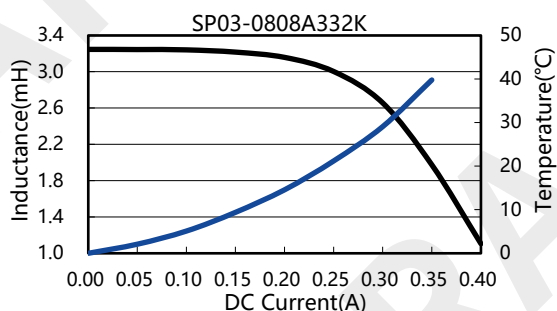
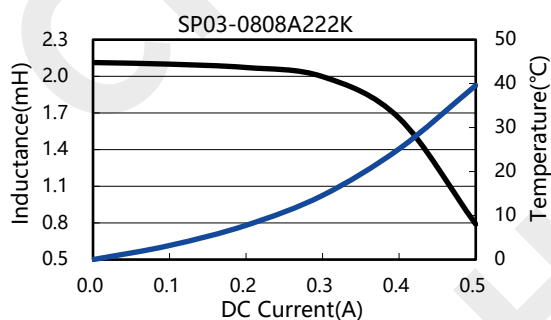
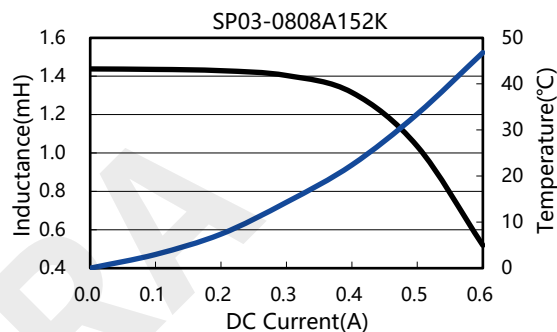
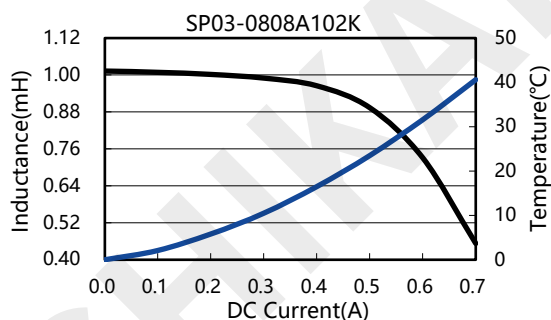
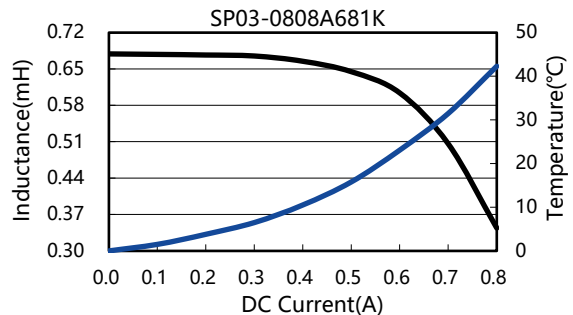
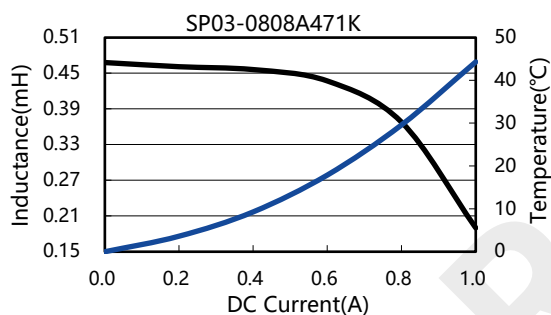
Part Number	Inductance L0(uH)	DCR (Ω)Typ.	DCR (Ω)Max.	Isat (A)Typ.	Irms (A)Typ.
SP03-0808A100M	10±20%	0.025	0.033	4.50	5.20
SP03-0808A150K	15±10%	0.034	0.045	3.70	4.50
SP03-0808A220K	22±10%	0.051	0.068	3.15	3.70
SP03-0808A330K	33±10%	0.078	0.102	2.48	2.95
SP03-0808A470K	47±10%	0.097	0.126	2.10	2.64
SP03-0808A680K	68±10%	0.145	0.174	1.75	2.20
SP03-0808A101K	100±10%	0.234	0.281	1.42	1.70
SP03-0808A151K	150±10%	0.348	0.418	1.14	1.39
SP03-0808A221K	220±10%	0.440	0.528	0.96	1.25
SP03-0808A331K	330±10%	0.726	0.871	0.78	0.96
SP03-0808A471K	470±10%	1.050	1.260	0.66	0.80
SP03-0808A681K	680±10%	1.400	1.680	0.55	0.69
SP03-0808A102K	1000±10%	1.960	2.350	0.45	0.60
SP03-0808A152K	1500±10%	2.990	3.590	0.37	0.48
SP03-0808A222K	2200±10%	4.050	4.860	0.30	0.41
SP03-0808A332K	3300±10%	6.620	7.950	0.25	0.32
SP03-0808A472K	4700±10%	9.430	11.30	0.21	0.27
SP03-0808A682K	6800±10%	13.50	16.20	0.17	0.22
SP03-0808A103J	10000±5%	19.80	23.80	0.14	0.18
SP03-0808A153J	15000±5%	30.00	36.00	0.12	0.15
SP03-0808A223J	22000±5%	45.60	54.70	0.096	0.12
SP03-0808A333J	33000±5%	70.00	84.00	0.078	0.098
SP03-0808A473J	47000±5%	89.00	107.0	0.067	0.087
SP03-0808A683J	68000±5%	142.0	170.0	0.058	0.069

- Test frequency and voltage:100KHz,0.1Vrms(10uH~680uH),1KHz,0.1Vrms(1000uH~68000uH).
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop 10% typical.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

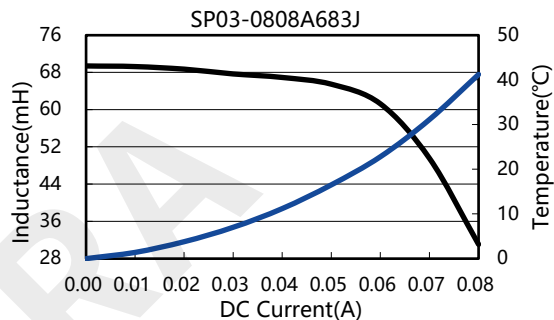
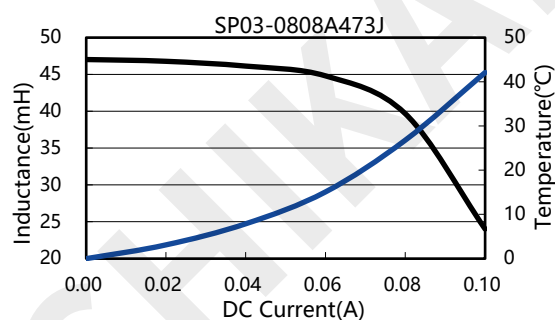
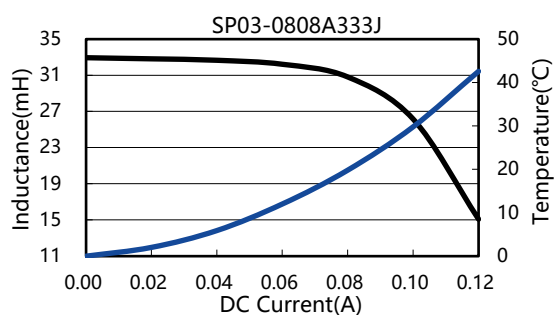
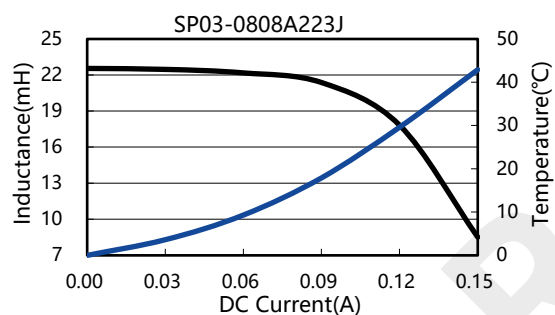
Characteristic Curve (Typical value)



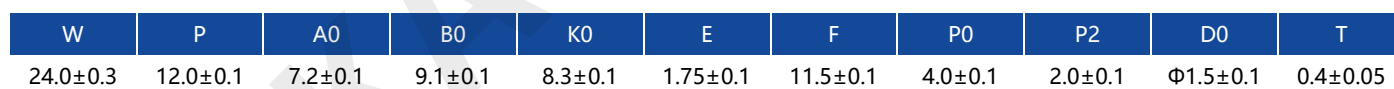
Characteristic Curve (Typical value)



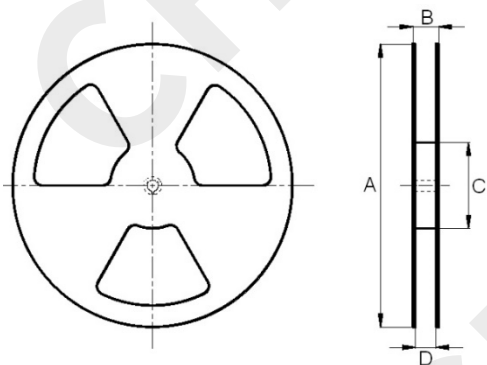
Characteristic Curve (Typical value)



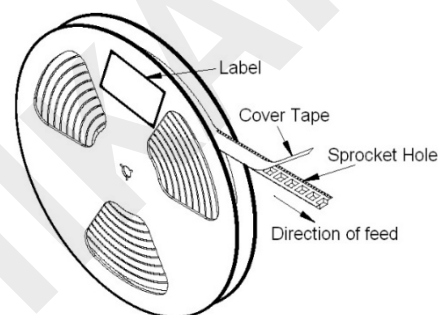
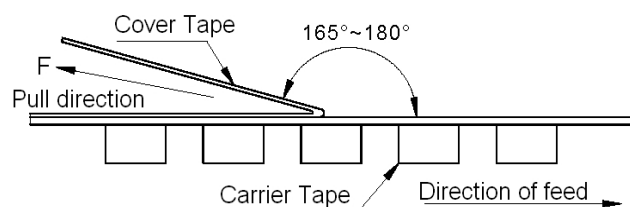
- Carrier Tape (Unit:mm)



A	B	A	B
Φ330±1.0	28.9Max.	Φ100±1.0	24.5±0.5



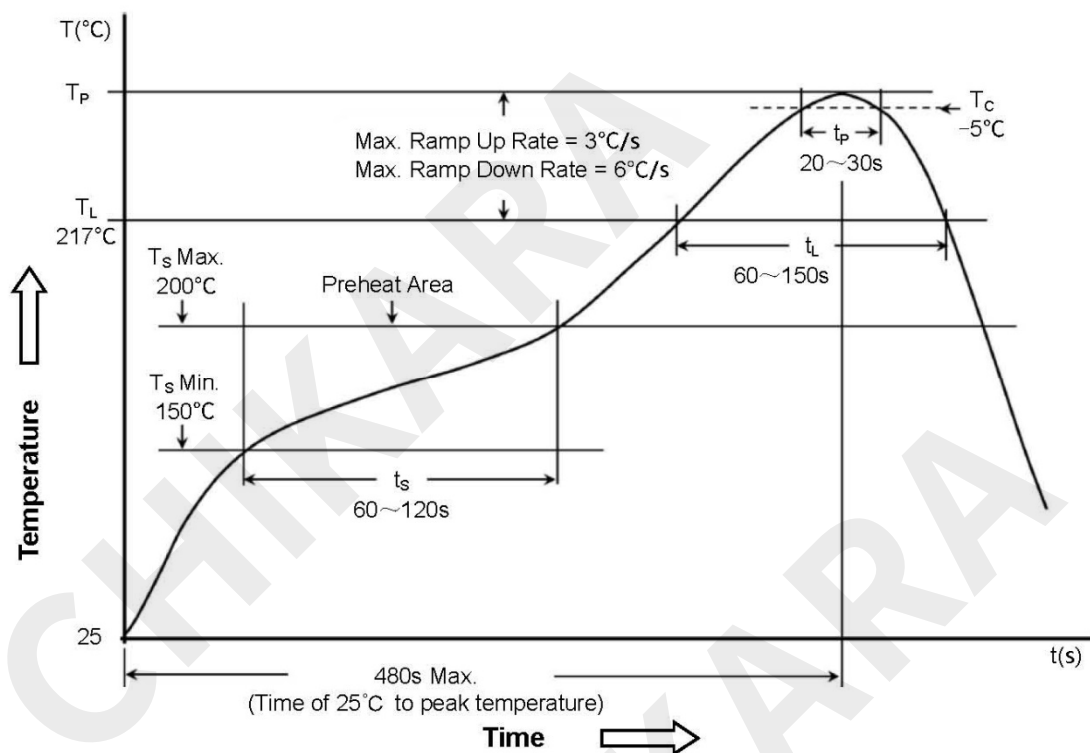
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.



650Pcs

Soldering Specification

- Reflow profile for SMT components



- Classification of peak package body temperature (T_p)

	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