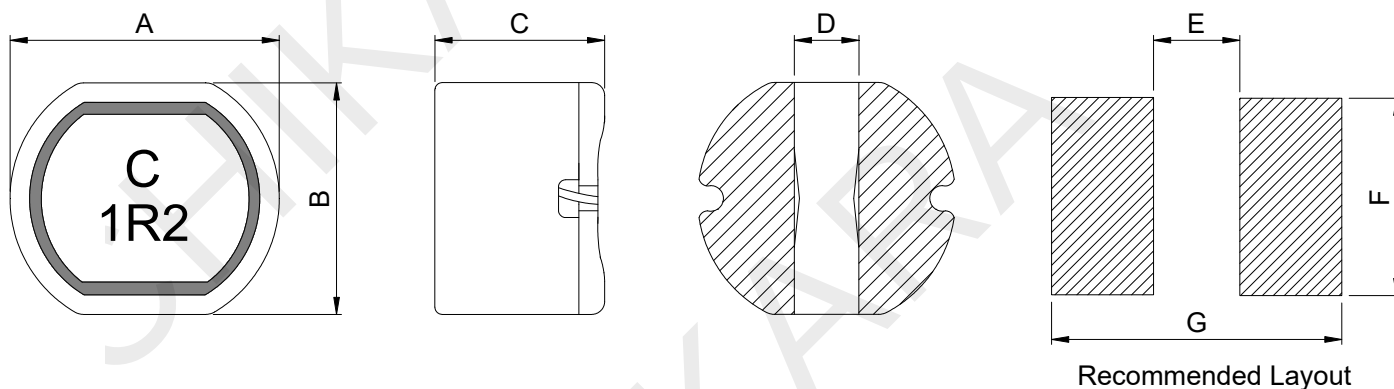


Features

- Shielded construction, Low magnetic flux leakage
- 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
$\Phi 7.8 \pm 0.3$	7.0 ± 0.3	5.0Max.	3.0	2.0	7.5	8.0

Part Number Description

SP19 - 0705 1R2 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

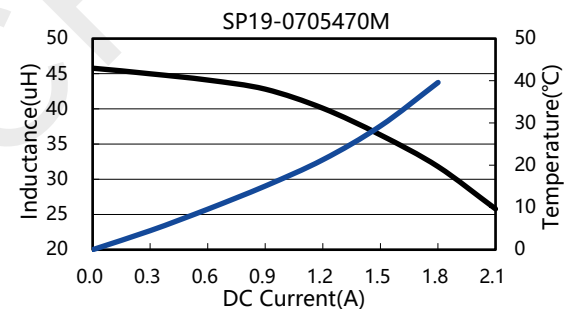
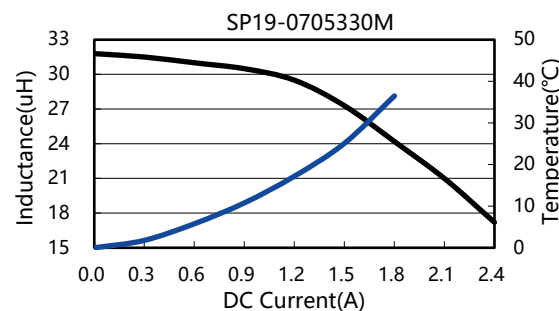
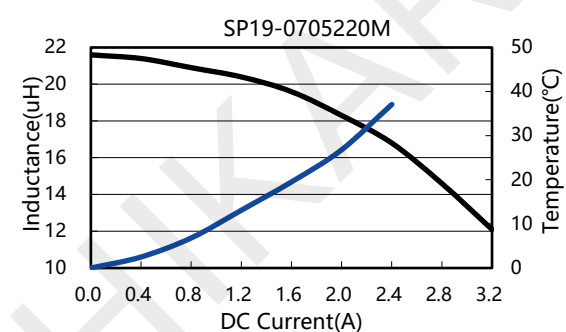
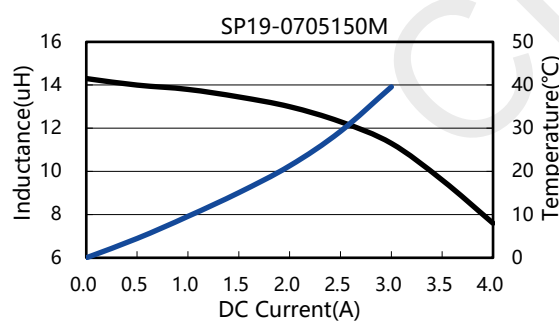
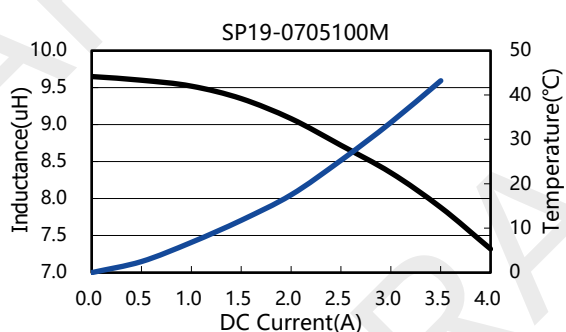
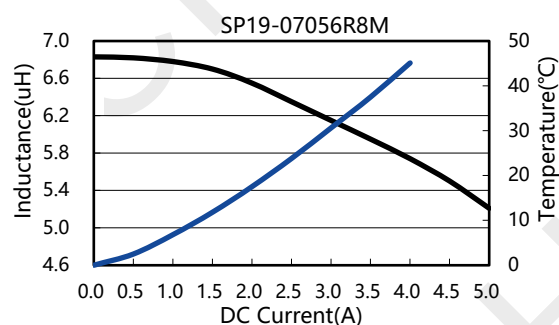
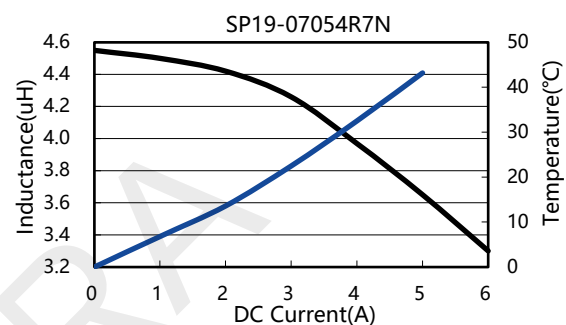
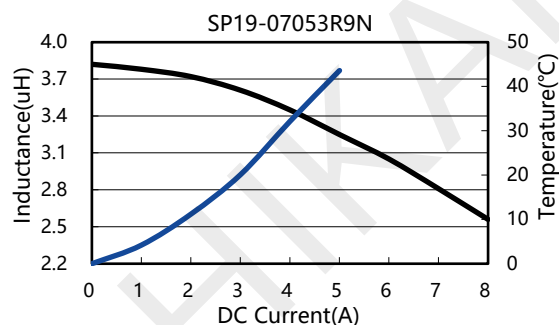
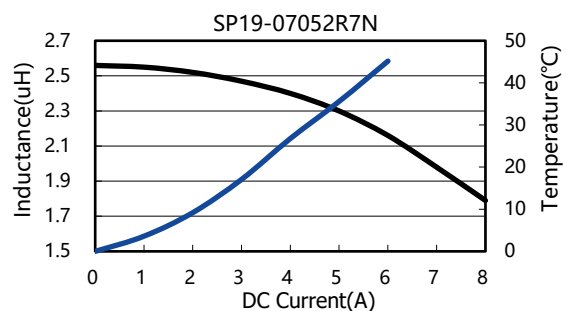
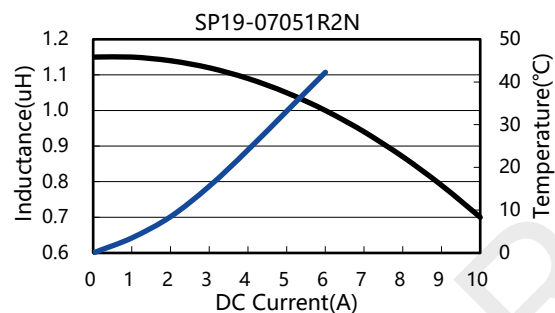


Electrical Characteristic

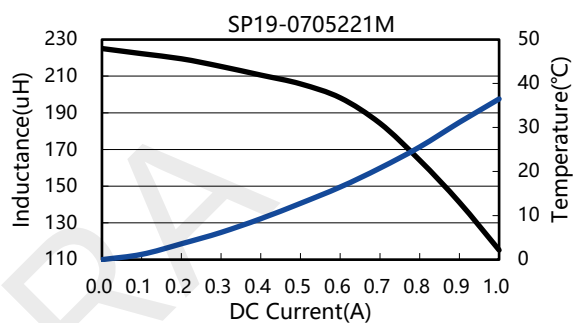
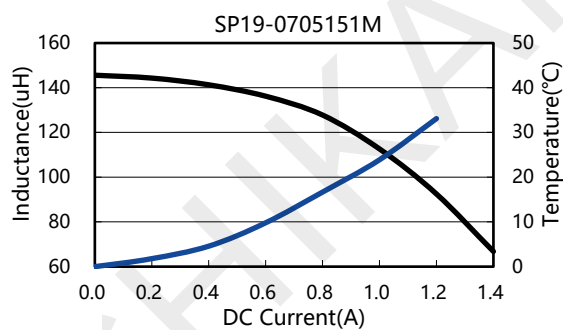
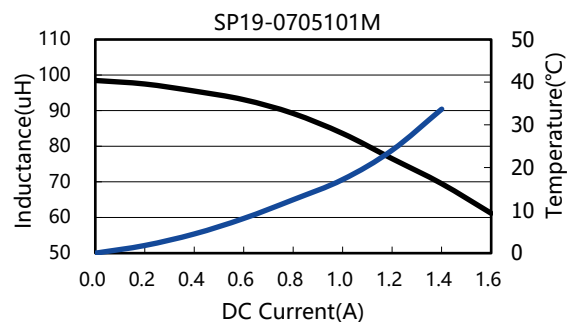
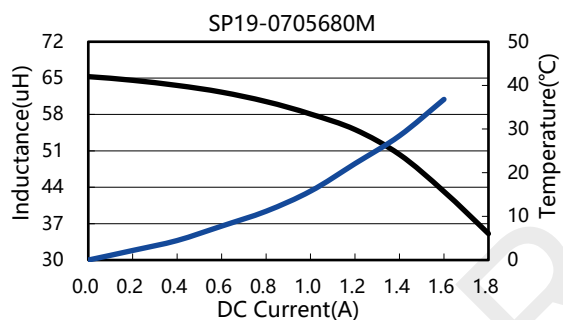
Part Number	Inductance L0(μH)	DCR (mΩ)Typ.	DCR (mΩ)Max.	Isat (A)Typ.	Irms (A)Typ.	SRF (MHz)Typ.
SP19-07051R2N	1.2±30%	8.5	13.0	6.00	4.85	110.0
SP19-07052R7N	2.7±30%	13.5	17.0	4.50	4.35	60.0
SP19-07053R9N	3.9±30%	16.7	20.0	4.00	3.80	45.0
SP19-07054R7N	4.7±30%	24.3	29.0	3.60	3.30	42.0
SP19-07056R8M	6.8±20%	27.0	33.0	3.00	3.00	30.0
SP19-0705100M	10±20%	36.5	43.0	2.60	2.60	24.0
SP19-0705150M	15±20%	52.0	60.0	2.10	2.30	18.0
SP19-0705220M	22±20%	88.0	103.0	1.70	1.83	13.0
SP19-0705330M	33±20%	137.0	161.0	1.30	1.48	10.0
SP19-0705470M	47±20%	206.0	243.0	1.15	1.25	8.0
SP19-0705680M	68±20%	246.0	290.0	1.00	1.12	7.5
SP19-0705101M	100±20%	396.0	467.0	0.87	0.95	5.0
SP19-0705151M	150±20%	610.0	719.0	0.70	0.72	4.0
SP19-0705221M	220±20%	743.0	896.0	0.58	0.67	3.5

- Test frequency and voltage:100KHz,0.25Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop 15% typical.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Characteristic Curve (Typical value)

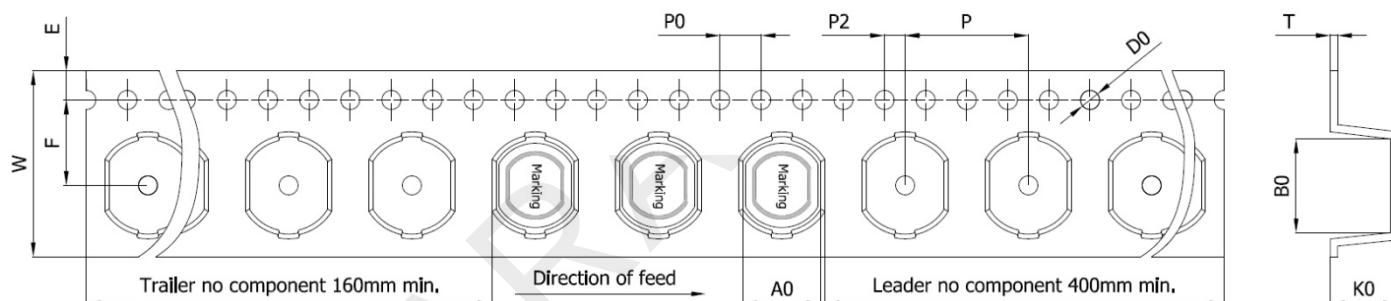


Characteristic Curve (Typical value)



Packaging Specification

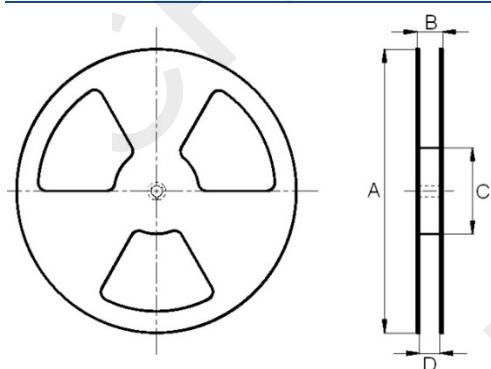
- Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
16.0±0.3	12.0±0.1	7.2±0.1	8.2±0.1	5.0±0.1	1.75±0.1	7.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.4±0.05

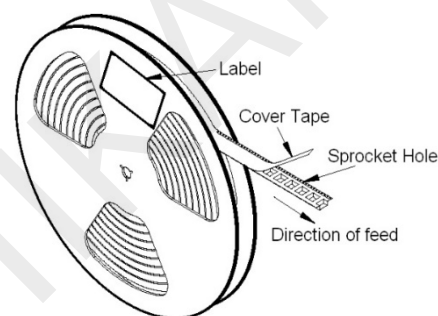
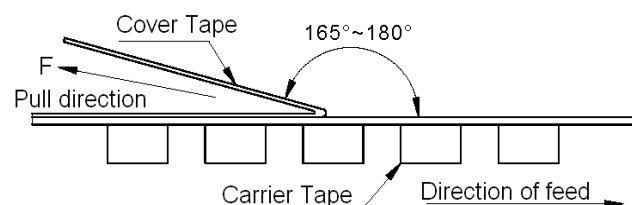
- Reel (Unit:mm)

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



- Taping Method

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.

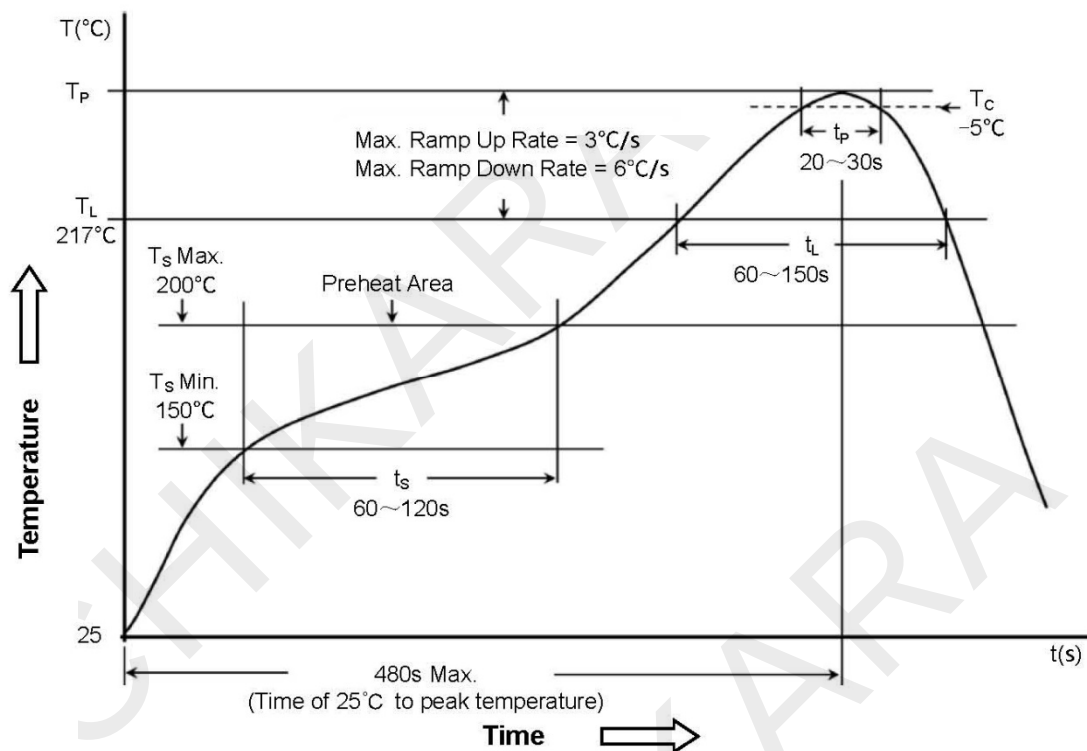
- Package Quantity

Parts per reel

1000Pcs

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