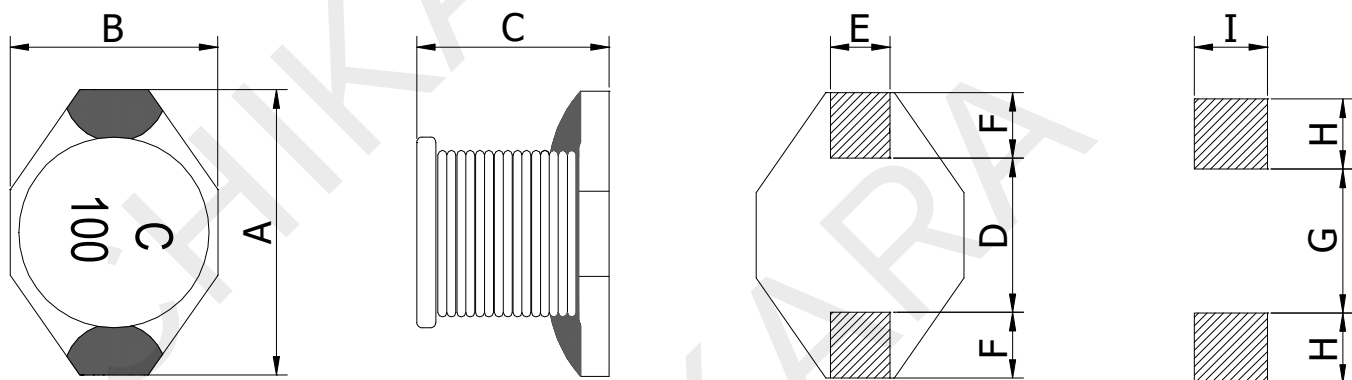


Features

- High energy storage and very low resistance
- Storage temperature range:-55°C to + 125°C
- Operating temperature range:-55°C to + 125°C
(including coil's self-temperature rise)
- Moisture sensitivity level:1
- Packaging:250pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



Recommended Layout

A	B	C	D	E	F	G	H	I
12.95Max.	9.40Max.	11.43Max.	7.62±0.3	2.54±0.2	2.54±0.2	7.37	2.92	2.79

Part Number Description

SP08 - 1311 100 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

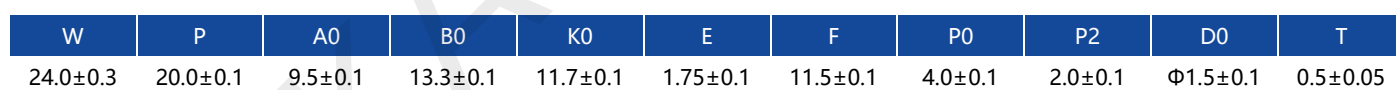


Electrical Characteristic

Part Number	Inductance L0(uH)	SRF (MHz)Typ.	DCR (Ω)Max.	Isat (A)Max.	Irms (A)Max.
SP08-1311100M	10±20%	22.0	0.04	8.00	3.50
SP08-1311150M	15±20%	18.0	0.05	7.00	3.00
SP08-1311220M	22±20%	11.0	0.07	5.50	2.50
SP08-1311330M	33±20%	9.0	0.08	4.00	2.00
SP08-1311470M	47±20%	8.0	0.11	3.80	1.60
SP08-1311680M	68±20%	7.0	0.17	3.00	1.20
SP08-1311101K	100±10%	5.0	0.22	2.50	1.20
SP08-1311151K	150±10%	4.0	0.34	2.00	0.90
SP08-1311221K	220±10%	3.5	0.44	1.60	0.70
SP08-1311331K	330±10%	2.5	0.70	1.20	0.60
SP08-1311471K	470±10%	2.0	0.95	1.00	0.30
SP08-1311681K	680±10%	2.0	1.20	1.00	0.20
SP08-1311102K	1000±10%	1.5	2.00	0.80	0.10

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

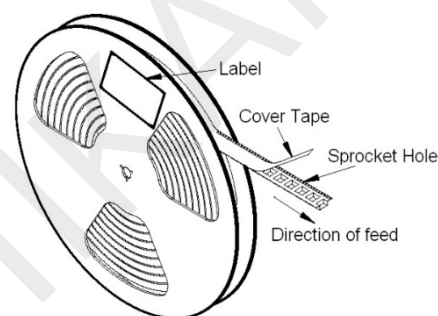
- Carrier Tape (Unit:mm)



A	B	C	D
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.



✖ Packing is referred to the international standard IEC 60286-3.

Parts per reel

250Pcs

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.