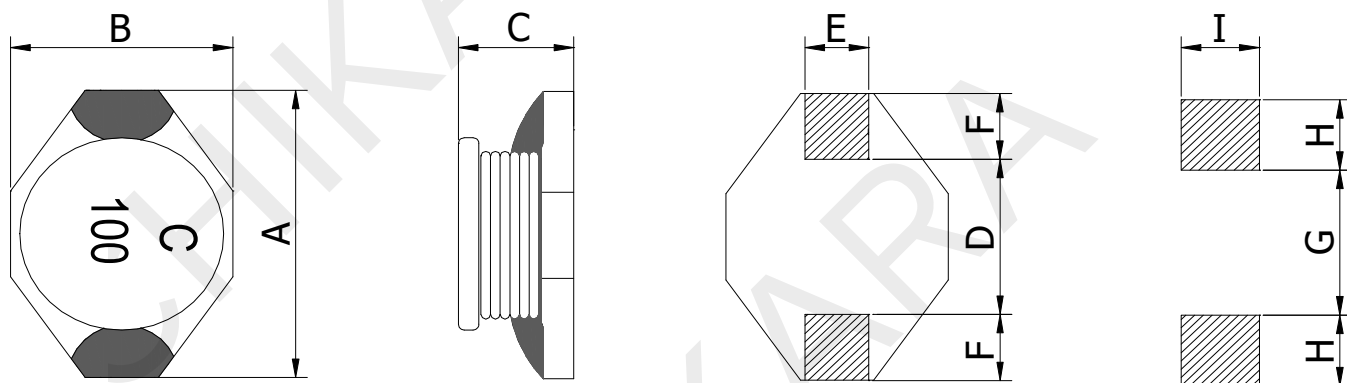


Features

- 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:1000pcs. 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.	3.50Max.	7.62±0.3	2.54±0.2	2.54±0.2	7.37	2.92	2.79

Part Number Description

SP08 - 1304 100 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



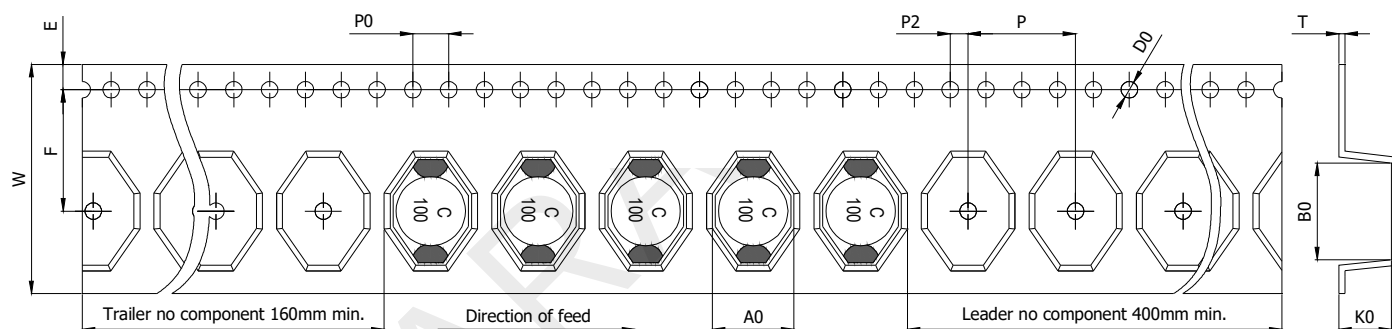
Electrical Characteristic

Part Number	Inductance L0(uH)	SRF (MHz)Typ.	DCR (Ω)Max.	Isat (A)Max.	Irms (A)Max.
SP08-1304100M	10±20%	35.0	0.11	2.40	2.00
SP08-1304150M	15±20%	33.0	0.15	2.00	1.50
SP08-1304220M	22±20%	25.0	0.23	1.60	1.30
SP08-1304330M	33±20%	19.0	0.30	1.40	1.10
SP08-1304470M	47±20%	14.0	0.39	1.00	0.80
SP08-1304680M	68±20%	12.0	0.66	0.90	0.70
SP08-1304101K	100±10%	10.0	0.84	0.70	0.60
SP08-1304151K	150±10%	8.0	1.20	0.60	0.50
SP08-1304221K	220±10%	8.0	1.90	0.50	0.40
SP08-1304331K	330±10%	5.0	2.70	0.40	0.30
SP08-1304471K	470±10%	4.0	4.00	0.30	0.20
SP08-1304681K	680±10%	3.0	5.30	0.20	0.10
SP08-1304102K	1000±10%	2.5	8.40	0.10	0.05

- 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.

Packaging Specification

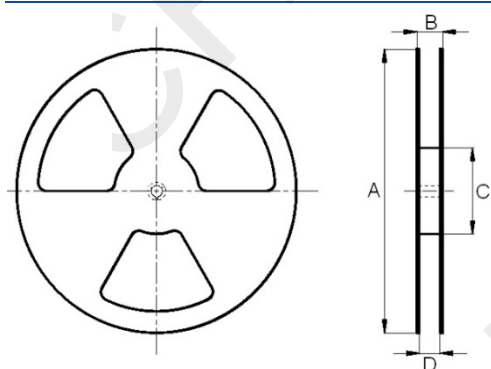
- Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
24.0±0.3	12.0±0.1	9.5±0.1	13.3±0.1	3.7±0.1	1.75±0.1	11.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.35±0.05

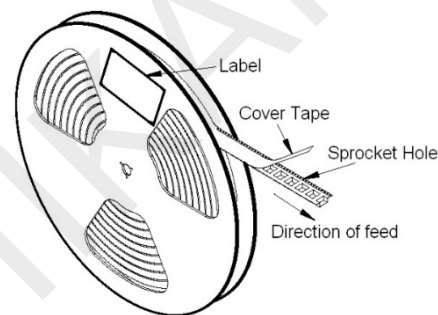
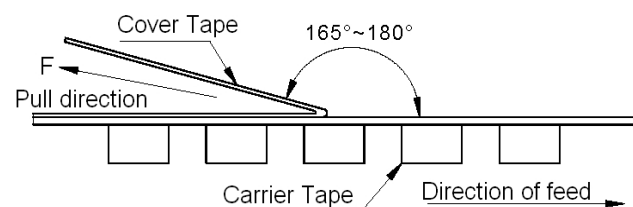
- Reel (Unit:mm)

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



- Taping Method

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.

- 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

※ Reflow is referred to standard IPC/JEDEC J-STD-020D.