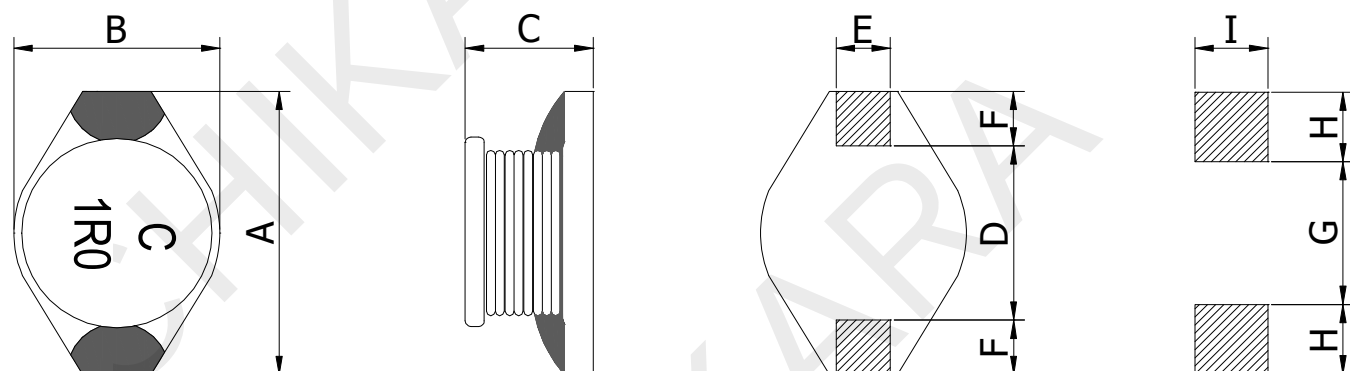


Features

- 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:400pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



Recommended Layout

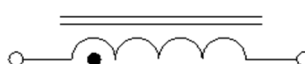
A	B	C	D	E	F	G	H	I
18.54Max.	15.24Max.	7.11Max.	12.7±0.3	2.54±0.2	2.54±0.2	12.45	2.92	2.79

Part Number Description

SP08 - 1907 1R0 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

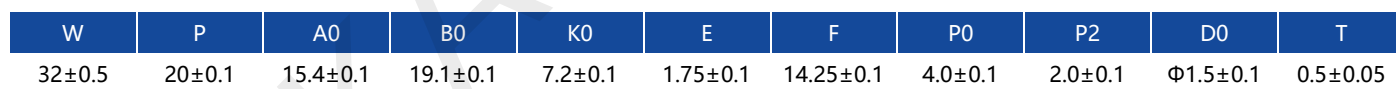


Electrical Characteristic

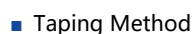
Part Number	Inductance L0(uH)	SRF (MHz)Typ.	DCR (Ω)Max.	Isat (A)Max.	Irms (A)Max.
SP08-19071R0M	1.0±20%	80.0	0.009	25.0	8.60
SP08-19072R2M	2.2±20%	80.0	0.014	20.3	7.10
SP08-19073R3M	3.3±20%	60.0	0.018	15.8	6.20
SP08-19075R6M	5.6±20%	40.0	0.020	13.1	5.30
SP08-1907100M	10±20%	30.0	0.031	10.0	4.30
SP08-1907150M	15±20%	22.0	0.036	8.00	4.00
SP08-1907220M	22±20%	20.0	0.047	7.00	3.50
SP08-1907330M	33±20%	15.0	0.066	5.50	3.00
SP08-1907470M	47±20%	9.0	0.086	4.50	2.60
SP08-1907680M	68±20%	8.0	0.13	3.60	2.30
SP08-1907101K	100±10%	7.0	0.19	3.40	1.80
SP08-1907151K	150±10%	6.0	0.25	2.70	1.50
SP08-1907221K	220±10%	5.0	0.38	2.40	1.20
SP08-1907331K	330±10%	4.0	0.56	1.90	1.00
SP08-1907471K	470±10%	3.0	0.85	1.60	0.82
SP08-1907681K	680±10%	2.5	1.10	1.30	0.72
SP08-1907102K	1000±10%	2.0	1.80	1.10	0.56

- 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.

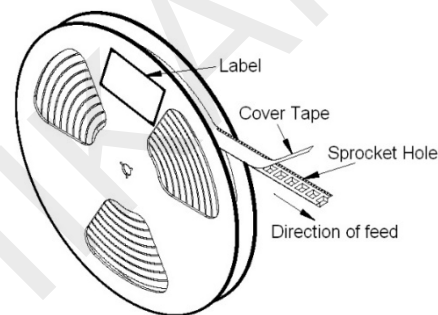
- Carrier Tape (Unit:mm)



A	B	C	D
Φ330±1.0	38.1Max.	Φ100±1.0	33±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

400Pcs

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.