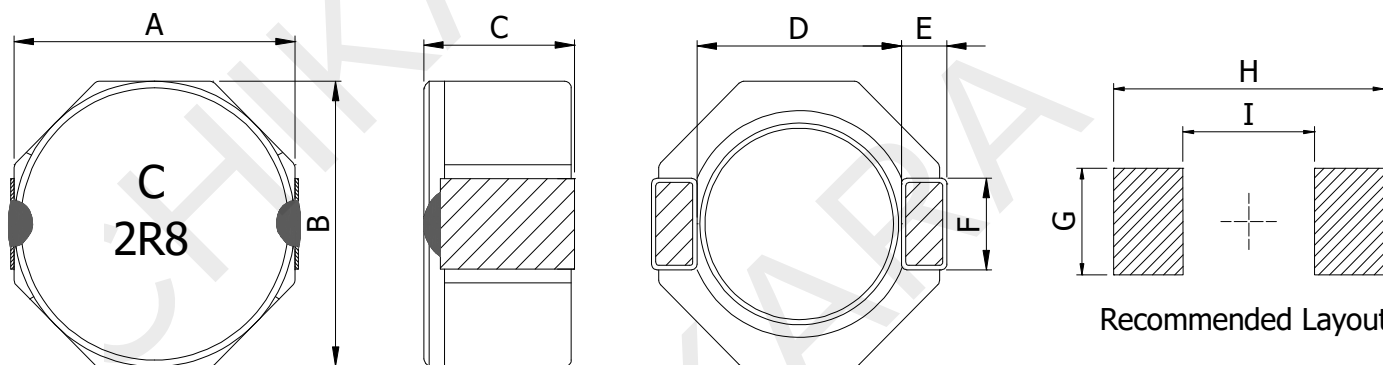


Features

- Magnetically shielded construction
- 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:800pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
8.0±0.3	8.0±0.3	6.0Max.	6.3	1.2	2.5	2.8	10.1	6.1

Part Number Description

SP09 - 8058 2R8 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

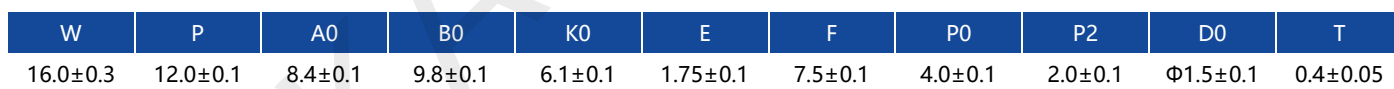


Electrical Characteristic

Part Number	Inductance L0(uH)	DCR (mΩ)Typ.	DCR (mΩ)Max.	Isat (A)Max.	Irms (A)Max.
SP09-80582R8N	2.8±30%	12.0	15.0	4.7	6.9
SP09-80583R9N	3.9±30%	13.0	16.3	4.1	6.3
SP09-80585R0N	5.0±30%	14.0	17.5	3.8	6.0
SP09-80586R2N	6.2±30%	16.0	20.0	3.3	5.5
SP09-8058100M	10±20%	22.0	25.6	2.6	4.5
SP09-8058150M	15±20%	27.0	36.3	2.3	3.6
SP09-8058220M	22±20%	39.0	45.3	1.7	3.3
SP09-8058330M	33±20%	52.0	65.3	1.5	2.7
SP09-8058470M	47±20%	75.0	90.5	1.2	2.2
SP09-8058680M	68±20%	104	130	1.0	1.7
SP09-8058101M	100±20%	140	175	0.8	1.4

- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 35%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

- Carrier Tape (Unit:mm)

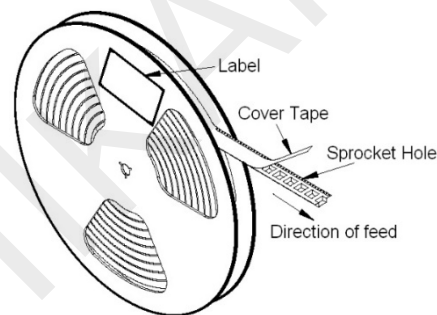


- Reel (Unit:mm)

A	B	C	D
$\Phi 330 \pm 1.0$	22.1Max.	$\Phi 100 \pm 1.0$	16.5 ± 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.

- Package Quantity

Parts per reel

800Pcs

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.