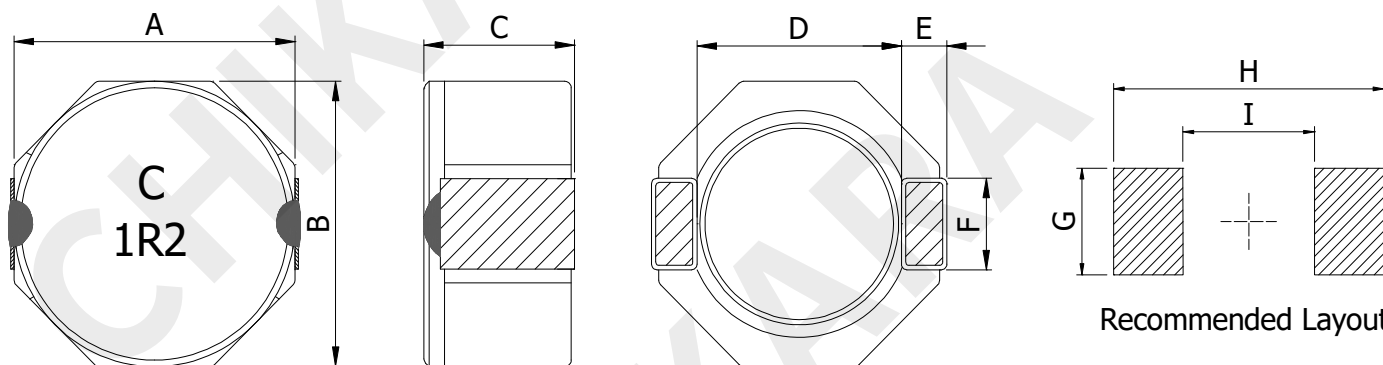


Features

- 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:1000pcs. 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	4.5Max.	6.3	1.2	2.5	2.8	10.1	6.1

Part Number Description

SP09 - 8043 1R2 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

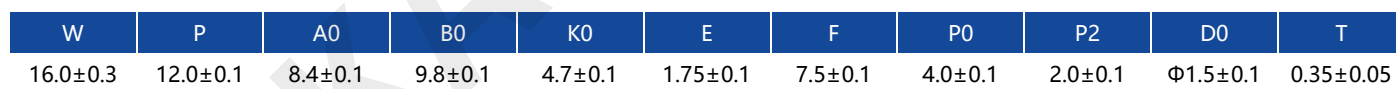


Electrical Characteristic

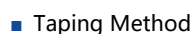
Part Number	Inductance L0(uH)	DCR (mΩ)Typ.	DCR (mΩ)Max.	Isat (A)Max.	Irms (A)Max.
SP09-80431R2N	1.2±30%	9.0	12.2	8.0	6.2
SP09-80432R0N	2.0±30%	11.0	14.0	7.0	5.5
SP09-80433R3N	3.3±30%	13.0	17.0	6.2	5.0
SP09-80433R9N	3.9±30%	15.0	19.0	5.9	4.5
SP09-80434R7N	4.7±30%	17.0	22.0	5.6	4.1
SP09-80436R8N	6.8±30%	23.0	30.0	4.4	3.9
SP09-8043100M	10±20%	29.0	36.0	4.0	3.2
SP09-8043150M	15±20%	42.0	53.0	2.9	2.3
SP09-8043220M	22±20%	60.0	75.0	2.6	1.8
SP09-8043330M	33±20%	100	125	2.2	1.4
SP09-8043470M	47±20%	140	180	1.8	1.3
SP09-8043680M	68±20%	190	240	1.5	1.0
SP09-8043101M	100±20%	290	360	1.3	0.8

- 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.

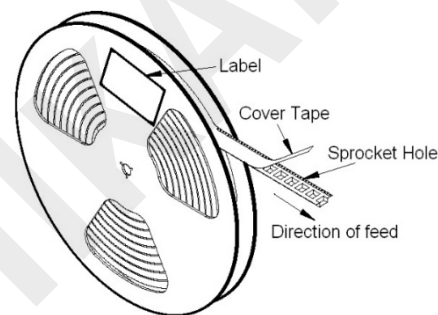
- Carrier Tape (Unit:mm)



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



Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.

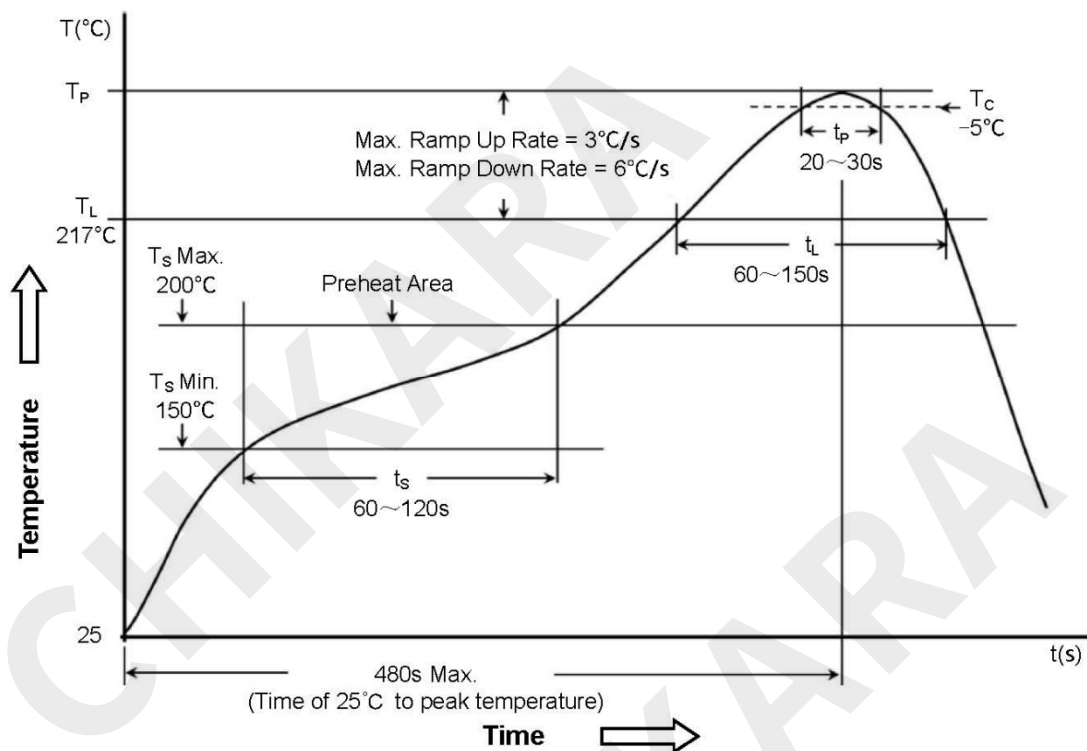


Parts per reel

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.