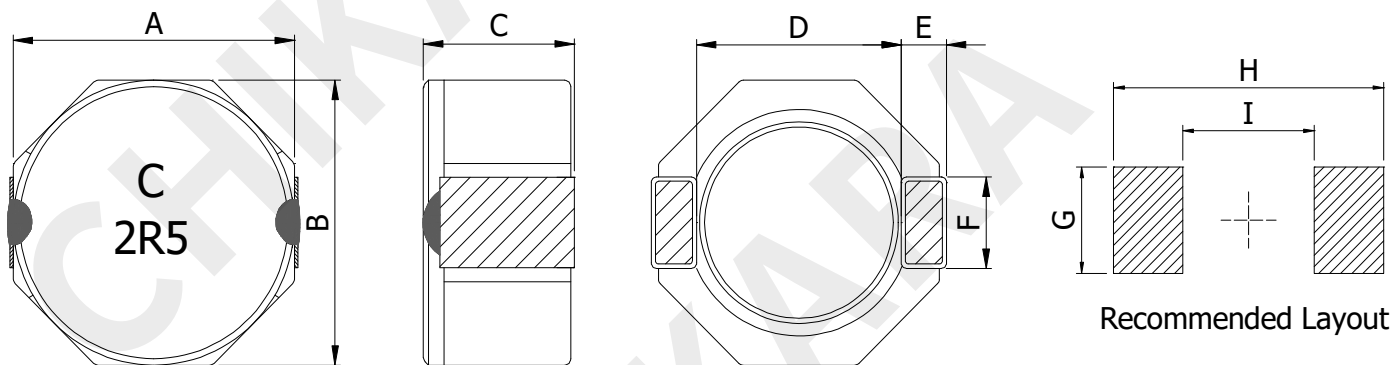


Features

- 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:1500pcs. 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	3.1Max.	6.3	1.2	2.5	2.8	10.1	6.1

Part Number Description

SP09 - 8028 2R5 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

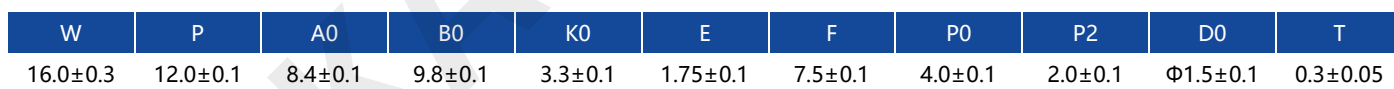


Electrical Characteristic

Part Number	Inductance L0(uH)	DCR (mΩ)Typ.	DCR (mΩ)Max.	Isat (A)Max.	Irms (A)Max.
SP09-80282R5N	2.5±30%	17.0	22.0	5.00	4.80
SP09-80283R3N	3.3±30%	22.0	28.0	4.50	4.20
SP09-80284R7N	4.7±30%	26.0	33.8	3.80	3.70
SP09-80287R3N	7.3±30%	40.0	52.0	3.00	3.20
SP09-8028100M	10±20%	55.0	71.0	2.70	2.35
SP09-8028150M	15±20%	70.0	91.0	2.20	1.85
SP09-8028220M	22±20%	105	135	1.80	1.45
SP09-8028330M	33±20%	160	208	1.50	1.30
SP09-8028470M	47±20%	210	273	1.25	1.00
SP09-8028680M	68±20%	310	403	1.00	0.90
SP09-8028101M	100±20%	410	533	0.90	0.75
SP09-8028151M	150±20%	630	820	0.75	0.65
SP09-8028181M	180±20%	680	880	0.65	0.55
SP09-8028221M	220±20%	870	1120	0.55	0.50

- 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.

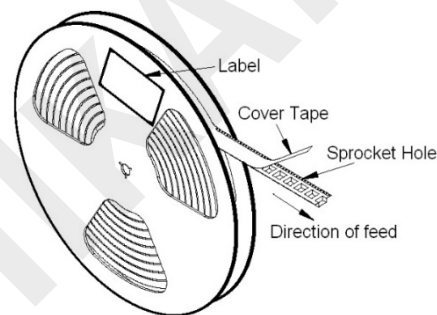
- Carrier Tape (Unit:mm)



A	B	C	D
$\Phi 330 \pm 1.0$	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.



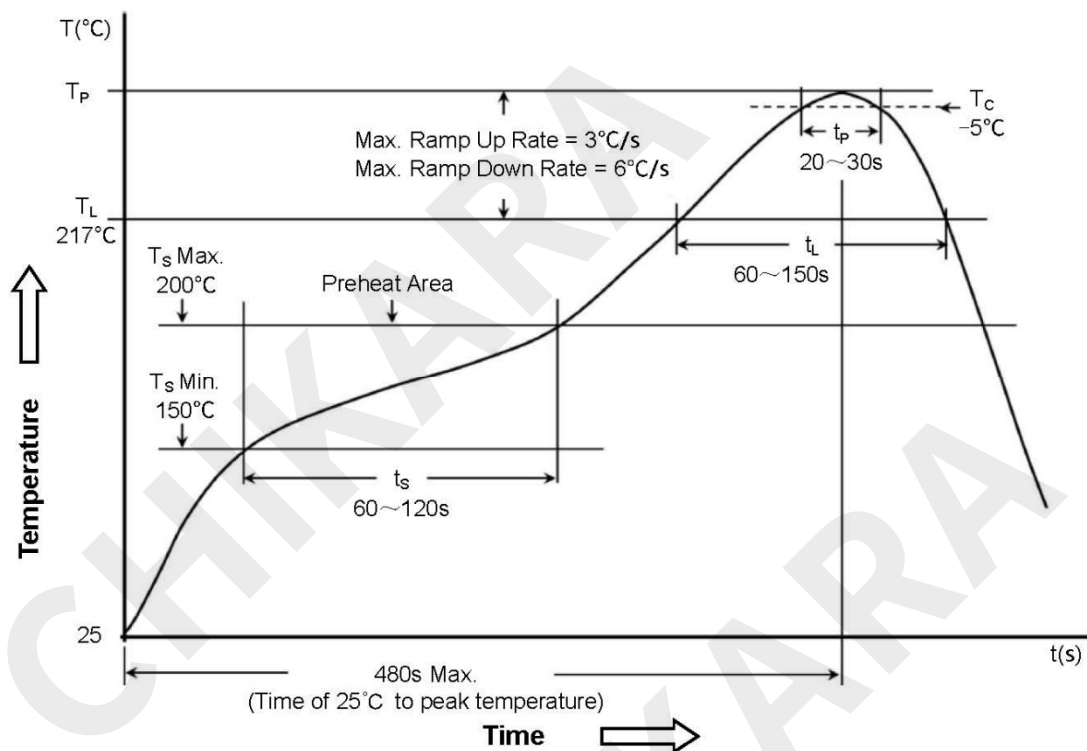
※ Packing is referred to the international standard IEC 60286-3.

Parts per reel

1500Pcs

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.