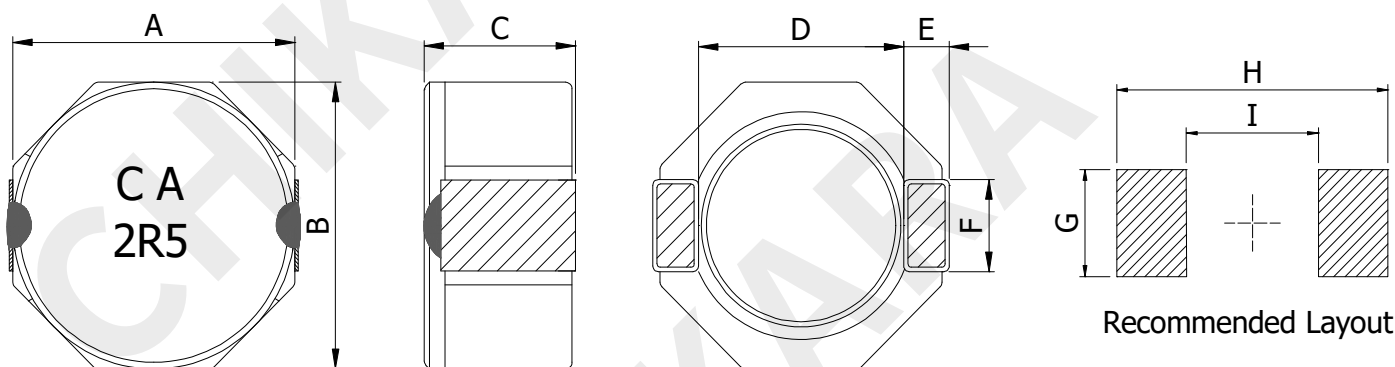


Features

- Magnetically shielded construction
- Storage temperature range:-55°C to +150°C
- Operating temperature range:-55°C to +150°C
(including coil's self-temperature rise)
- Moisture sensitivity level:1
- AEC-Q200 qualified
- Packaging:1200pcs. 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	4.0Max.	6.3	1.2	2.5	2.8	10.1	6.1

Part Number Description

SPA02 - 8038 1R8 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

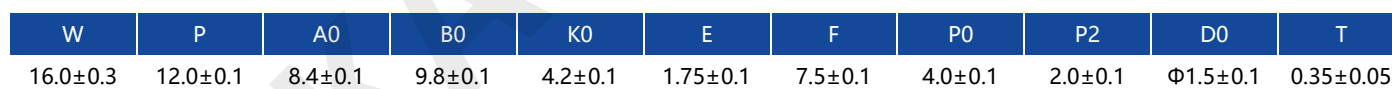


Electrical Characteristic

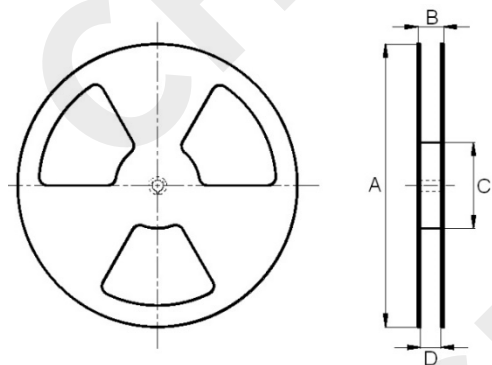
Part Number	Inductance L0(uH)	DCR (mΩ)Typ.	DCR (mΩ)Max.	Isat (A)Max.	Irms (A)Max.
SPA02-80381R8N	1.8±30%	12.0	15.6	7.00	6.80
SPA02-80382R5N	2.5±30%	14.0	17.5	6.50	6.00
SPA02-80383R5N	3.5±30%	17.0	24.0	5.00	5.20
SPA02-80384R7N	4.7±30%	22.0	29.0	4.60	4.40
SPA02-80386R0N	6.0±30%	24.0	32.0	4.20	4.00
SPA02-8038100M	10±20%	43.0	48.0	3.00	3.20
SPA02-8038150M	15±20%	61.0	67.0	2.75	2.50
SPA02-8038220M	22±20%	86.0	105	2.30	2.00
SPA02-8038330M	33±20%	128	157	1.75	1.60
SPA02-8038470M	47±20%	163	189	1.52	1.42
SPA02-8038680M	68±20%	232	290	1.30	1.08
SPA02-8038101M	100±20%	355	410	1.05	0.88

- 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.

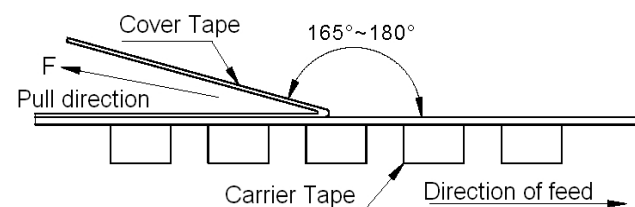
- Carrier Tape (Unit:mm)



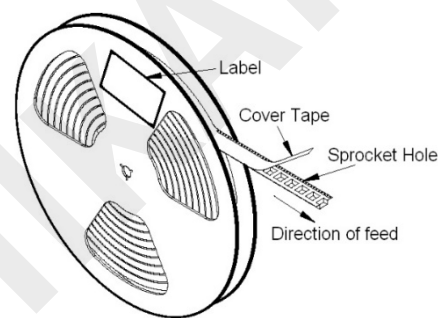
A	B	C	D
Φ330±1.0	22.1Max.	Φ100±1.0	16.5±0.5



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



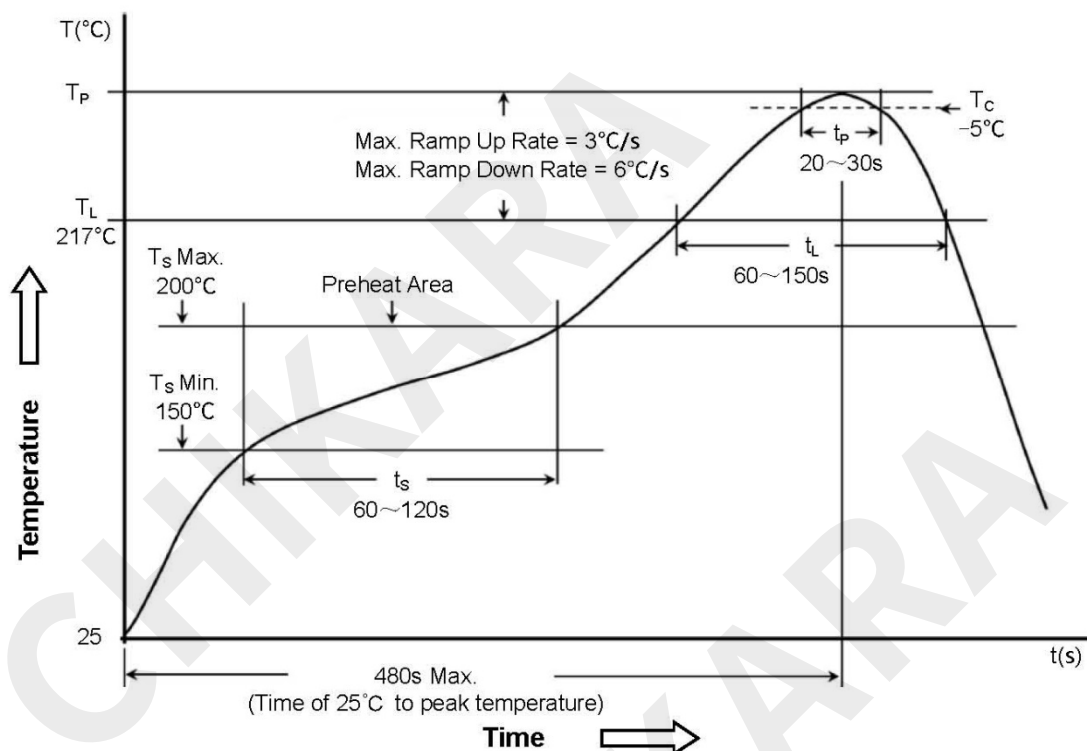
✖ Packing is referred to the international standard IEC 60286-3.



Parts per reel
1200Pcs

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.