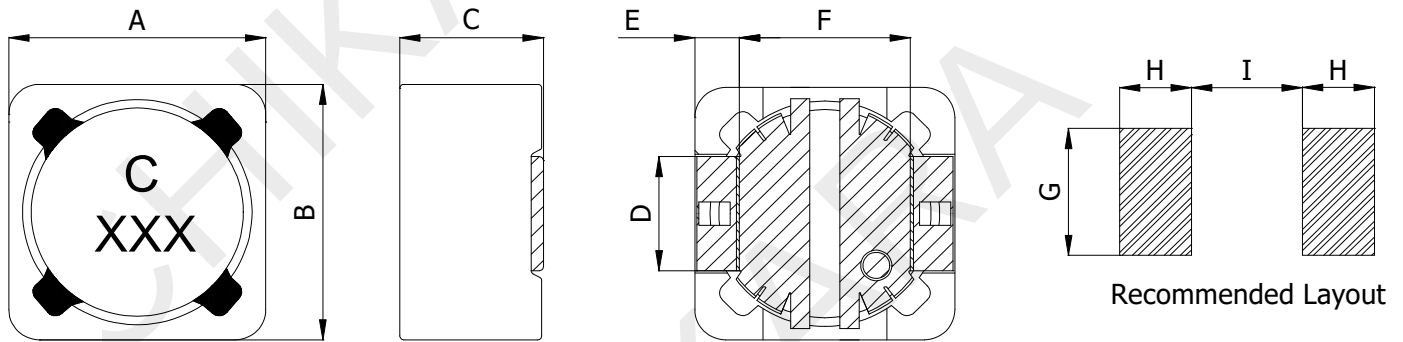


Features

- 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)



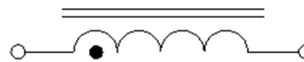
A	B	C	D	E	F	G	H	I
7.3±0.3	7.3±0.3	3.55Max.	2.0±0.1	1.25±0.1	4.7±0.2	3.25	2.5	3.5

Part Number Description

SP04 - 0703 1R0 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



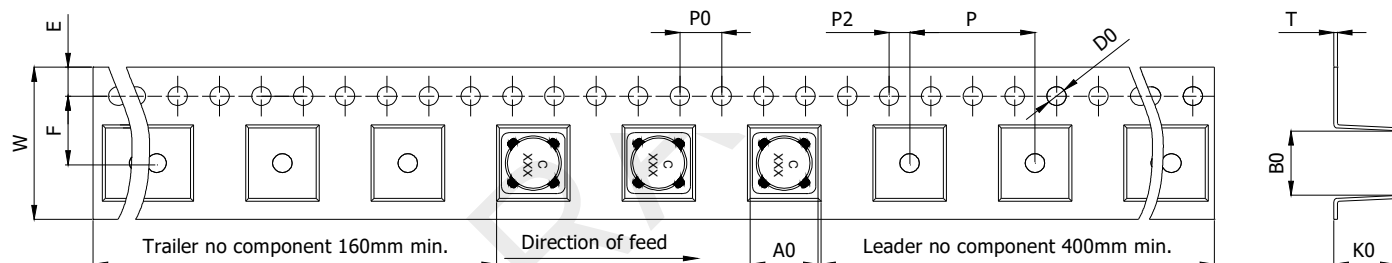
Electrical Characteristic

Part Number	Inductance L0(μH)	DCR		Isat (A)Typ.	Irms (A)Typ.	SRF (MHz)Typ.
		(mΩ)Typ.	(mΩ)Max.			
SP04-07031R0N	1.0±30%	10.2	13.2	7.97	5.28	110
SP04-07031R5N	1.5±30%	13.0	16.9	6.52	4.67	80
SP04-07032R2N	2.2±30%	16.5	21.5	5.52	4.15	65
SP04-07033R3M	3.3±20%	25.9	33.7	4.22	3.31	59
SP04-07034R7M	4.7±20%	29.7	38.6	3.78	3.09	45
SP04-07036R8M	6.8±20%	43.5	56.5	3.12	2.55	41
SP04-07038R2M	8.2±20%	59.2	76.9	2.66	2.19	36
SP04-0703100M	10±20%	65.6	85.2	2.47	2.08	30
SP04-0703150M	15±20%	84.4	110	2.05	1.83	26
SP04-0703220M	22±20%	107	139	1.67	1.62	20
SP04-0703330M	33±20%	166	216	1.35	1.31	15
SP04-0703470M	47±20%	241	323	1.14	1.08	13
SP04-0703680M	68±20%	358	465	0.96	0.89	11
SP04-0703820M	82±20%	384	499	0.89	0.86	9.5
SP04-0703101M	100±20%	527	685	0.79	0.73	9.0
SP04-0703151M	150±20%	851	1106	0.65	0.58	7.0
SP04-0703221M	220±20%	1050	1365	0.53	0.52	5.9
SP04-0703331M	330±20%	1590	2067	0.44	0.42	4.5
SP04-0703471M	470±20%	2360	3068	0.37	0.35	4.0
SP04-0703681M	680±20%	3470	4511	0.31	0.29	3.5
SP04-0703821M	820±20%	3930	5109	0.28	0.27	2.8
SP04-0703102K	1000±10%	4340	5642	0.25	0.26	2.5

- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Packaging Specification

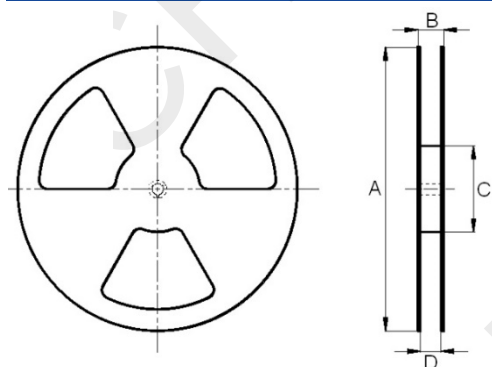
■ Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
16.0±0.3	12.0±0.1	7.6±0.1	7.6±0.1	3.7±0.1	1.75±0.1	7.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.4±0.05

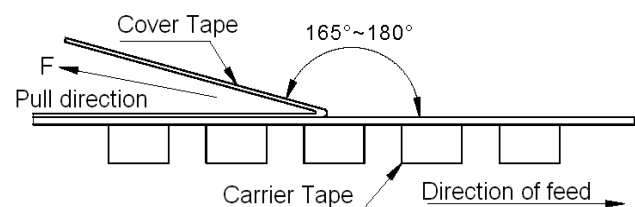
■ Reel (Unit:mm)

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



■ Taping Method

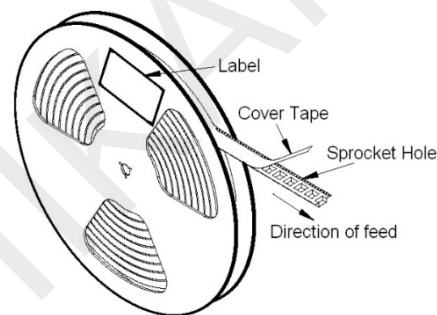
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.0N	165°~180°	300mm/min.



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

■ Package Quantity

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.