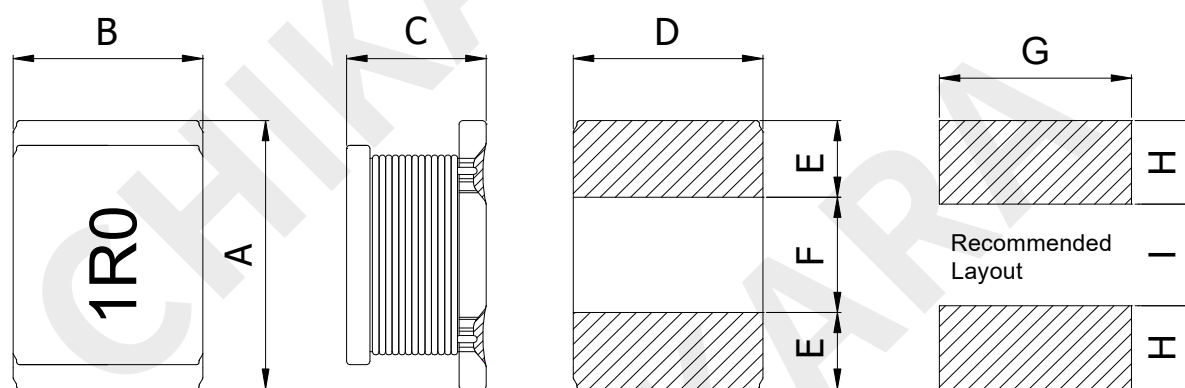


Features

- High Q at high frequencies, wide inductance range
- 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:2000pcs. Per 7-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
3.2±0.3	2.5±0.3	2.0±0.3	2.5Typ.	1.0Typ.	1.2Typ.	2.8	1.4	1.0

Part Number Description

SP22 - 322520 1R0 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



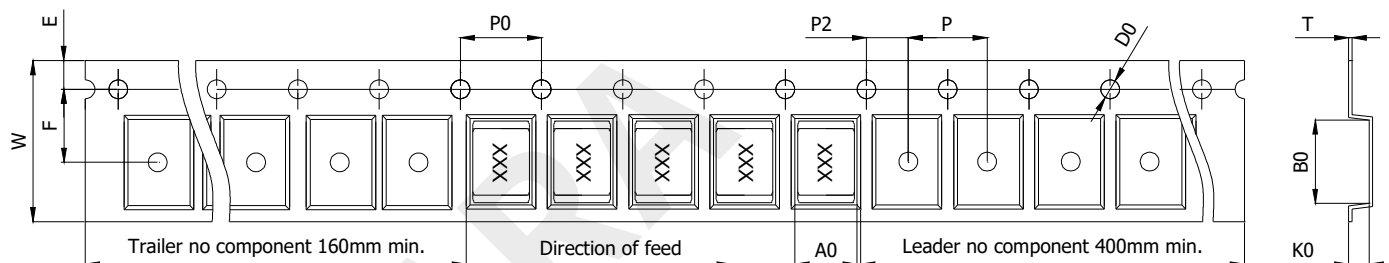
Electrical Characteristic

Part Number	Inductance L0(uH)	Q Typ.	Q Freq.(MHz)	SRF (MHz)Typ.	DCR (Ω)Max.	Isat (A)Typ.	Irms (A)Max.
SP22-3225201R0M	1.0±20%	20	1	100	0.10	3.20	0.75
SP22-3225201R5M	1.5±20%	20	1	75	0.13	2.10	0.66
SP22-3225201R8M	1.8±20%	20	1	60	0.14	2.00	0.64
SP22-3225202R2M	2.2±20%	20	1	50	0.15	1.80	0.62
SP22-3225202R7M	2.7±20%	20	1	43	0.18	1.60	0.60
SP22-3225203R3M	3.3±20%	20	1	38	0.20	1.50	0.58
SP22-3225203R9M	3.9±20%	20	1	35	0.25	1.35	0.54
SP22-3225204R7M	4.7±20%	20	1	31	0.28	1.25	0.49
SP22-3225205R6M	5.6±20%	20	1	28	0.36	1.15	0.44
SP22-3225206R8M	6.8±20%	20	1	25	0.40	1.10	0.42
SP22-3225208R2M	8.2±20%	20	1	23	0.45	0.95	0.39
SP22-322520100K	10±10%	35	1	20	0.65	0.85	0.32
SP22-322520120K	12±10%	35	1	18	0.70	0.78	0.29
SP22-322520150K	15±10%	35	1	16	1.00	0.70	0.27
SP22-322520180K	18±10%	35	1	15	1.10	0.65	0.24
SP22-322520220K	22±10%	35	1	14	1.30	0.60	0.22
SP22-322520330K	33±10%	40	1	12	1.85	0.48	0.160
SP22-322520470K	47±10%	40	1	11	3.00	0.40	0.150
SP22-322520680K	68±10%	35	1	9	3.80	0.30	0.130
SP22-322520820K	82±10%	35	1	8	5.60	0.28	0.105
SP22-322520101K	100±10%	40	0.796	8	6.50	0.25	0.100
SP22-322520121K	120±10%	40	0.796	7	7.00	0.18	0.095
SP22-322520151K	150±10%	40	0.796	7	9.20	0.16	0.086
SP22-322520221K	220±10%	40	0.796	5	11.8	0.24	0.075
SP22-322520331K	330±10%	40	0.796	5	16.5	0.18	0.065
SP22-322520391K	390±10%	46	0.796	5	22.0	0.15	0.060
SP22-322520471K	470±10%	46	0.796	5	25.0	0.12	0.055
SP22-322520561K	560±10%	46	0.796	5	28.0	0.10	0.048

- Test frequency and voltage:1MHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 10%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Packaging Specification

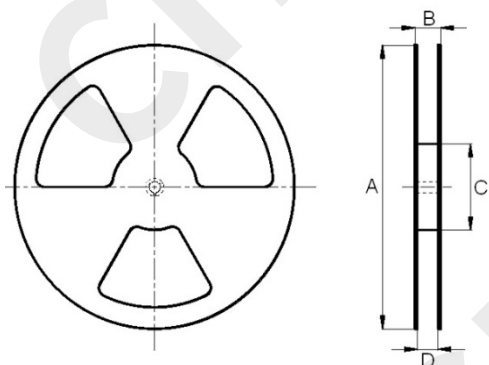
■ Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
8.0±0.3	4.0±0.1	3.0±0.1	3.6±0.1	2.5±0.1	1.75±0.1	3.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.25±0.05

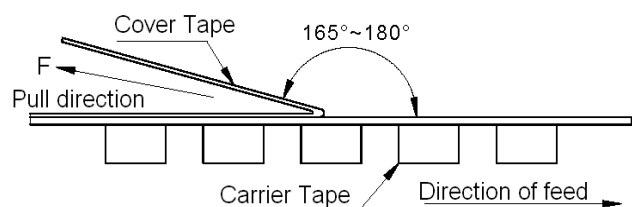
■ Reel (Unit:mm)

A	B	C	D
Φ178±1.0	11.5Max.	Φ50Min.	9.0±0.5



■ Taping Method

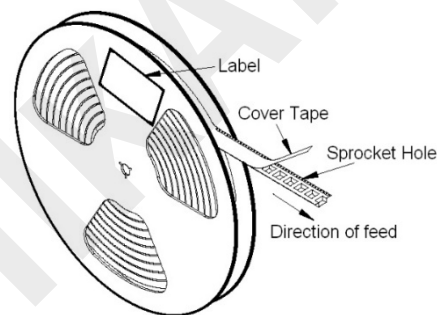
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.



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

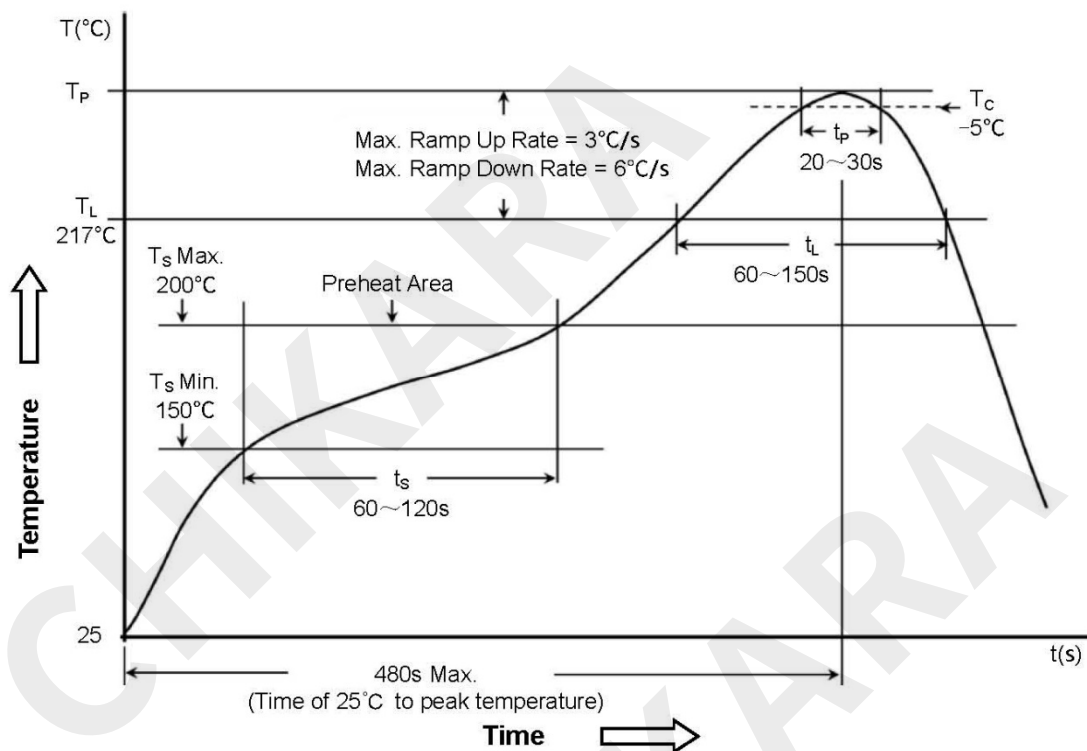
■ Package Quantity

Parts per reel
2000Pcs



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.