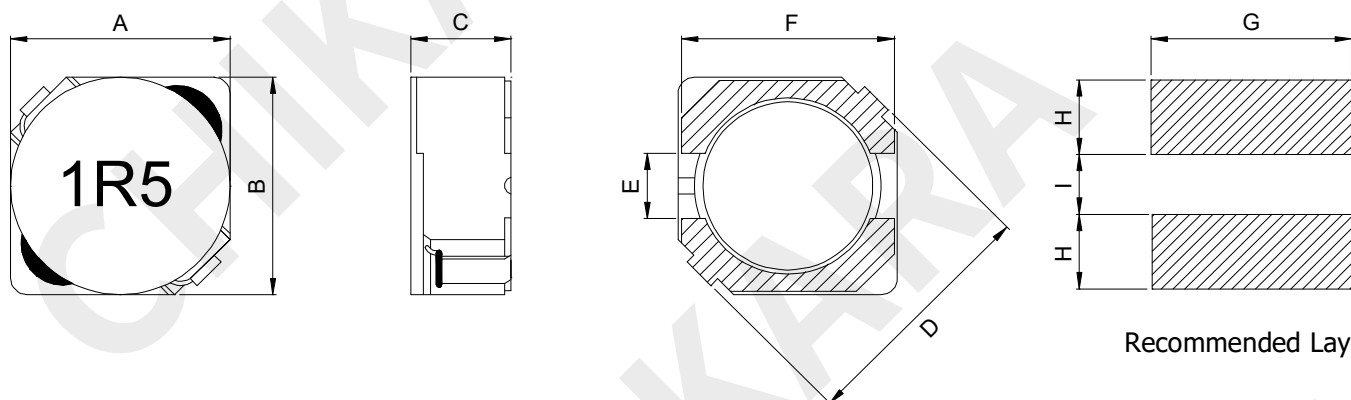


Features

- 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
6.8±0.5	6.8±0.5	3.1Max.	9.5Max.	2.0±0.3	6.5±0.3	7.3	2.65	2.0

Part Number Description

SP18 - 0703 1R5 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



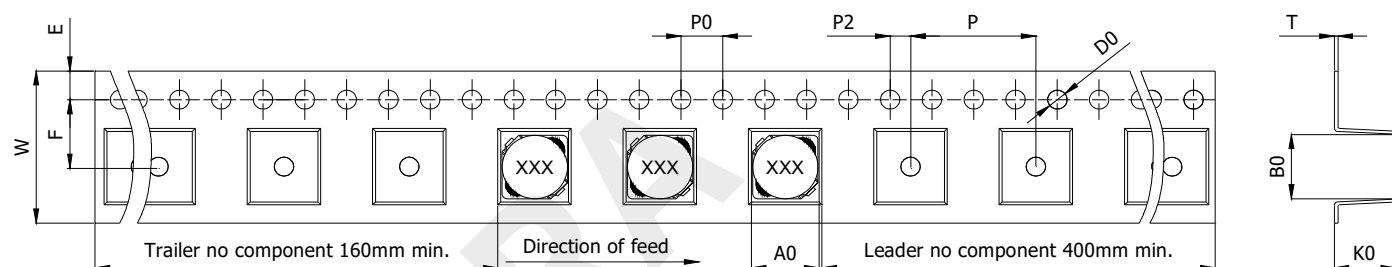
Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (mΩ)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
SP18-07031R5N	1.5±30%	12	80.0	5.10	6.9
SP18-07033R0N	3.0±30%	20	55.0	3.50	6.0
SP18-07033R9N	3.9±30%	23	45.0	3.20	5.7
SP18-07035R0M	5.0±20%	30	40.0	2.80	4.5
SP18-07036R0M	6.0±20%	33	38.0	2.60	4.6
SP18-07037R3M	7.3±20%	45	35.0	2.50	3.8
SP18-07038R6M	8.6±20%	48	33.5	2.20	3.4
SP18-0703100M	10±20%	52	30.0	1.90	3.2
SP18-0703120M	12±20%	66	26.0	1.70	2.8
SP18-0703150M	15±20%	75	24.0	1.60	2.7
SP18-0703180M	18±20%	88	22.0	1.40	2.6
SP18-0703220M	22±20%	113	21.0	1.30	2.2
SP18-0703270M	27±20%	132	17.0	1.20	2.0
SP18-0703330M	33±20%	150	16.0	1.10	1.9
SP18-0703390M	39±20%	180	14.5	0.96	1.6
SP18-0703470M	47±20%	215	12.5	0.89	1.6
SP18-0703560M	56±20%	270	11.5	0.80	1.4
SP18-0703680M	68±20%	300	10.5	0.74	1.2
SP18-0703820M	82±20%	370	9.5	0.67	1.2
SP18-0703101M	100±20%	495	8.5	0.61	1.1

- 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

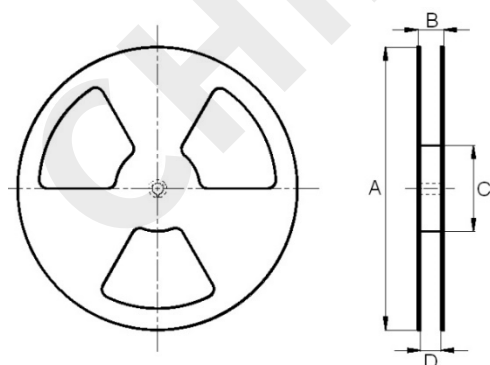
Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
16.0±0.3	12.0±0.1	7.4±0.1	7.4±0.1	3.3±0.1	1.75±0.1	7.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.35±0.05

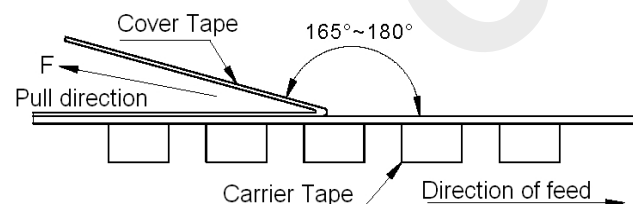
Reel (Unit:mm)

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



Taping Method

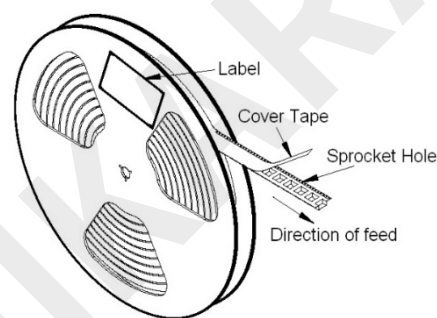
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.3N	165°~180°	300mm/min.



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

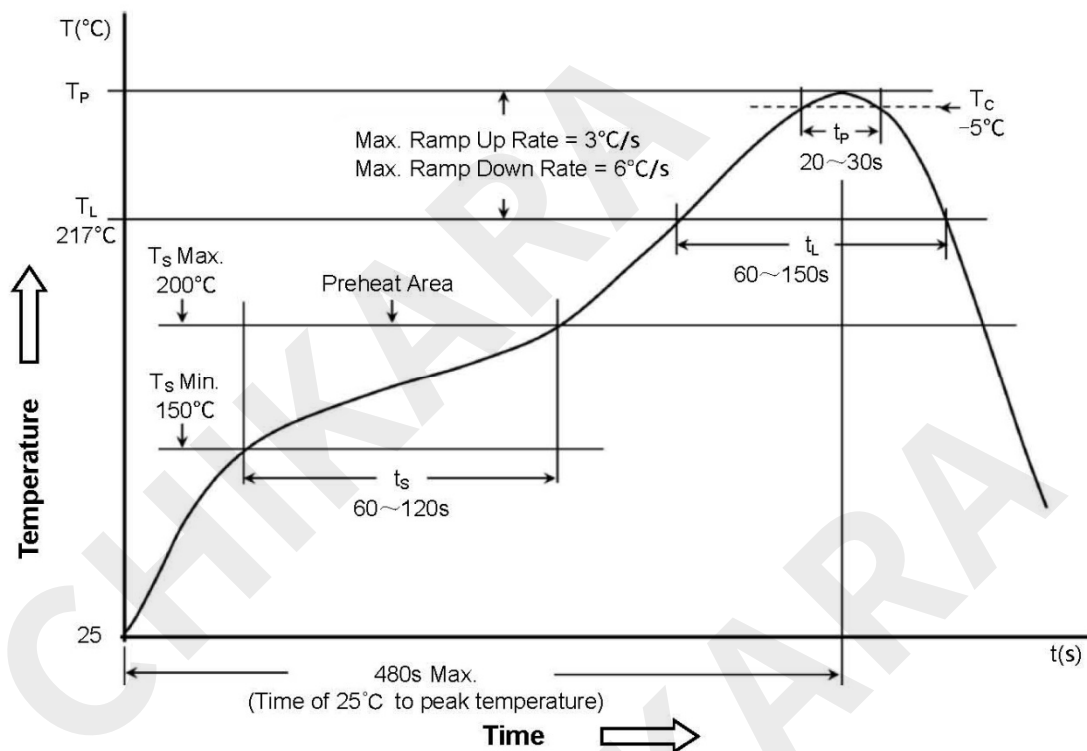
Package Quantity

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.