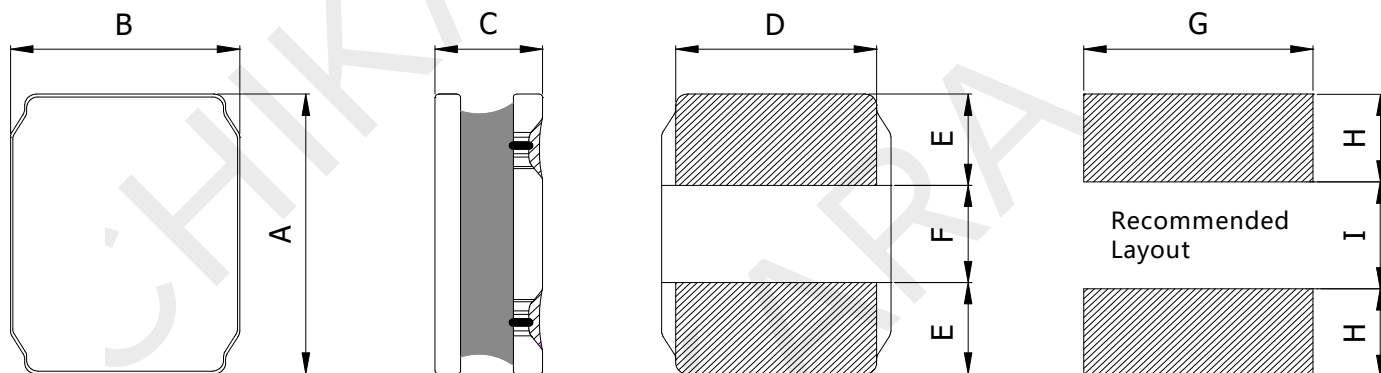


Features

- Magnetic-resin 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:2000pcs. Per 7-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
2.0±0.2	1.6±0.2	1.1Max.	1.2±0.3	0.6±0.2	0.8±0.2	1.7	0.8	0.8

Part Number Description

SP07 - 201610 R24 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

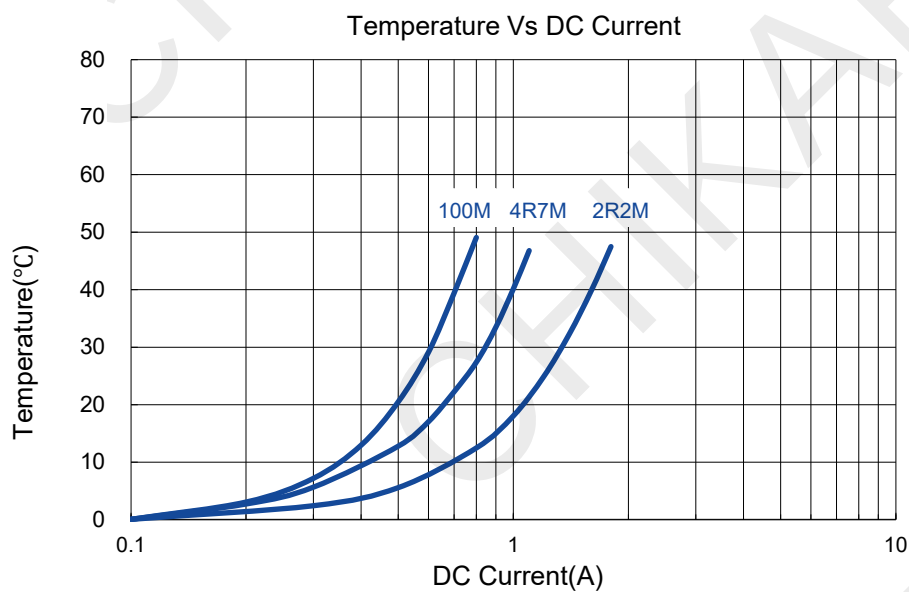
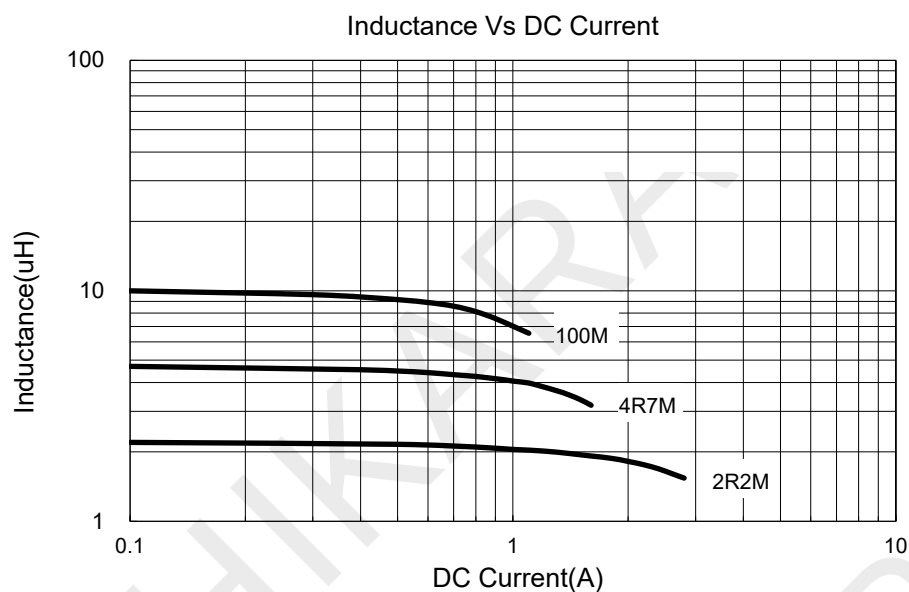


Electrical Characteristic

Part Number	Inductance L0(uH)	DCR		Isat		Irms	
		(mΩ)Max.	(mΩ)Typ.	(A)Max.	(A)Typ.	(A)Max.	(A)Typ.
SP07-201610R24M	0.24±20%	40.0	33.0	4.50	5.50	3.00	3.45
SP07-201610R33M	0.33±20%	49.0	41.0	4.40	5.20	2.70	3.10
SP07-201610R47M	0.47±20%	49.0	41.0	4.06	4.70	2.70	3.10
SP07-201610R56M	0.56±20%	53.0	43.0	3.80	4.50	2.60	2.80
SP07-201610R68M	0.68±20%	65.0	57.0	3.50	4.00	2.50	2.70
SP07-2016101R0M	1.0±20%	95.0	78.0	3.30	3.85	2.00	2.30
SP07-2016101R5M	1.5±20%	130	110	1.95	2.30	1.70	2.00
SP07-2016102R2M	2.2±20%	180	160	1.90	2.15	1.40	1.60
SP07-2016103R3M	3.3±20%	307	245	1.40	1.60	1.10	1.30
SP07-2016104R7M	4.7±20%	425	370	1.10	1.40	0.90	1.00
SP07-2016106R8M	6.8±20%	620	500	0.95	1.15	0.70	0.82
SP07-2016108R2M	8.2±20%	870	670	0.86	1.00	0.66	0.76
SP07-201610100M	10±20%	875	700	0.80	0.95	0.60	0.70
SP07-201610150M	15±20%	1700	1300	0.69	0.76	0.36	0.42

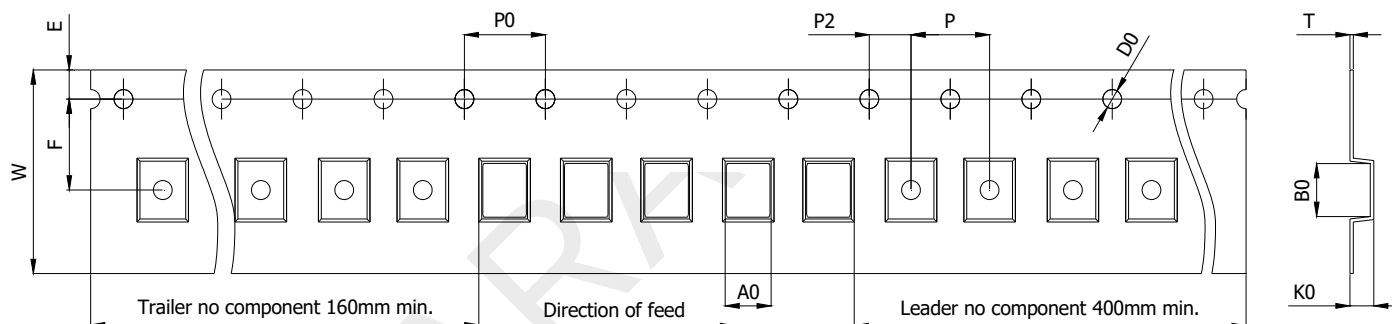
- Test frequency and voltage:1MHz,1Vrms.
- All test data referenced to 25°C ambient.
- Absolute maximum voltage: 25V.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Characteristic Curve (Typical value)



Packaging Specification

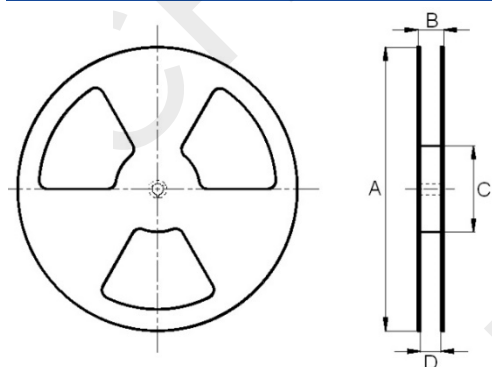
Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
8.0±0.3	4.0±0.1	2.0±0.1	2.35±0.1	1.2±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

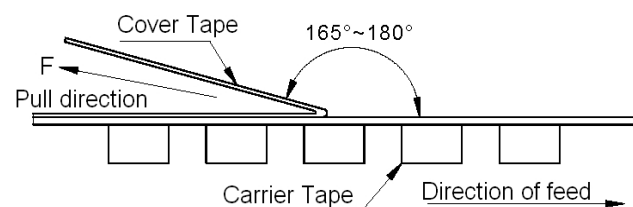
Reel (Unit:mm)

A	B	C	D
Φ178±2.0	11.5Max.	Φ50Min.	9.0±0.5

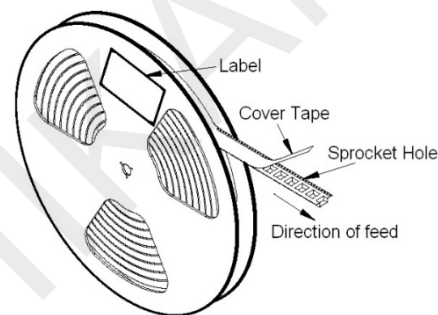


Taping Method

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.

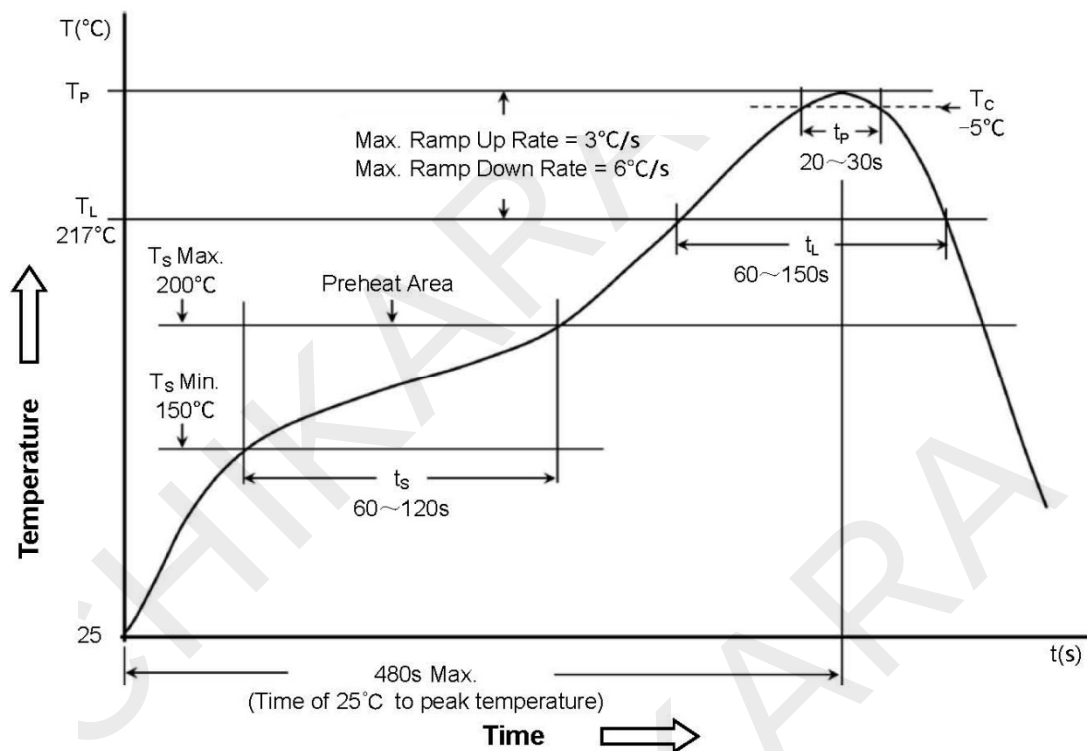


Package Quantity

Parts per reel
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.