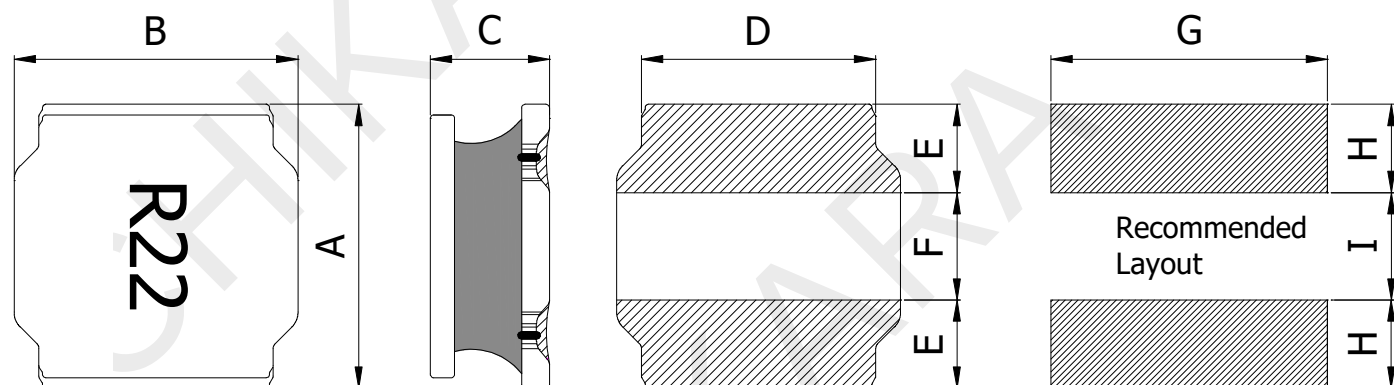


Features

- 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
3.0±0.2	3.0±0.2	1.25Max.	2.5±0.3	0.8±0.3	1.4±0.3	3.2	0.85	1.5

Part Number Description

SP07 - 030012 R22 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

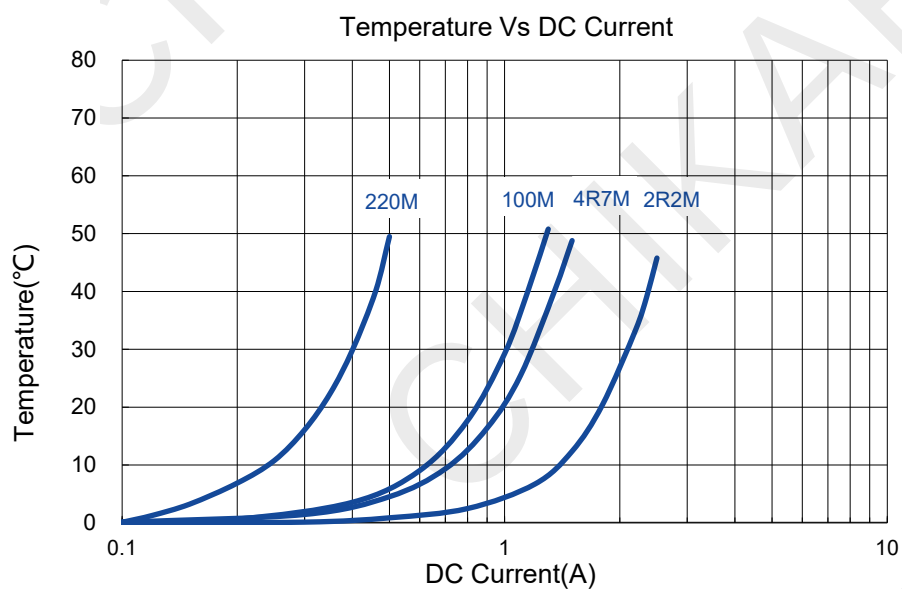
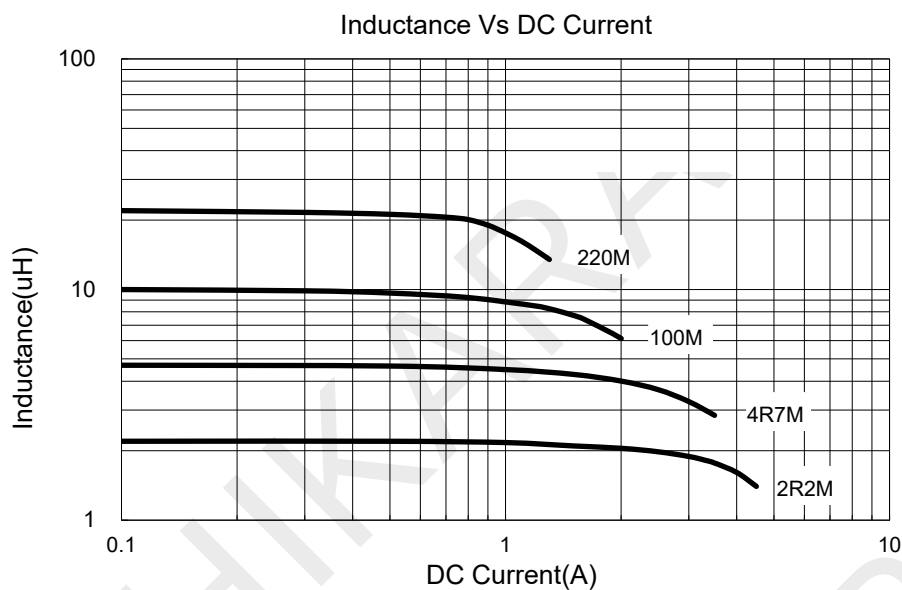


Electrical Characteristic

Part Number	Inductance L0(uH)	DCR		Isat		Irms	
		(mΩ)Max.	(mΩ)Typ.	(A)Max.	(A)Typ.	(A)Max.	(A)Typ.
SP07-030012R22M	0.22±20%	26.0	20.0	9.30	10.0	4.20	4.80
SP07-030012R33M	0.33±20%	32.0	24.0	7.20	8.90	4.10	4.80
SP07-030012R47M	0.47±20%	40.0	31.0	6.80	8.00	3.80	4.20
SP07-030012R68M	0.68±20%	46.0	38.0	5.80	6.80	3.10	3.60
SP07-0300121R0M	1.0±20%	54.0	46.0	4.20	5.40	2.70	3.10
SP07-0300121R5M	1.5±20%	74.0	62.0	3.40	4.10	2.50	2.90
SP07-0300122R2M	2.2±20%	108	90.0	2.80	3.35	2.05	2.35
SP07-0300123R3M	3.3±20%	185	144	2.20	2.60	1.50	1.80
SP07-0300124R7M	4.7±20%	255	215	2.00	2.50	1.15	1.35
SP07-0300126R8M	6.8±20%	340	290	1.60	1.90	1.10	1.25
SP07-030012100M	10±20%	474	395	1.20	1.45	1.00	1.15
SP07-030012150M	15±20%	740	610	1.10	1.30	0.53	0.60
SP07-030012220M	22±20%	1200	960	0.96	1.15	0.40	0.46

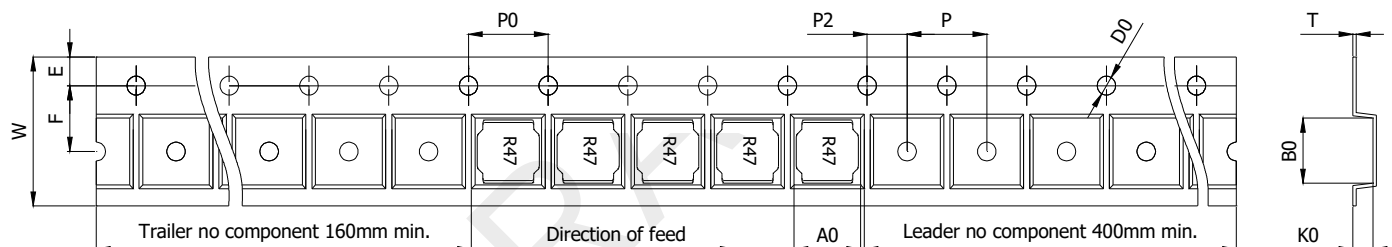
- Test frequency and voltage:1MHz,1Vrms.
- All test data referenced to 25°C ambient.
- Absolute maximum voltage: 40V.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Characteristic Curve (Typical value)



Packaging Specification

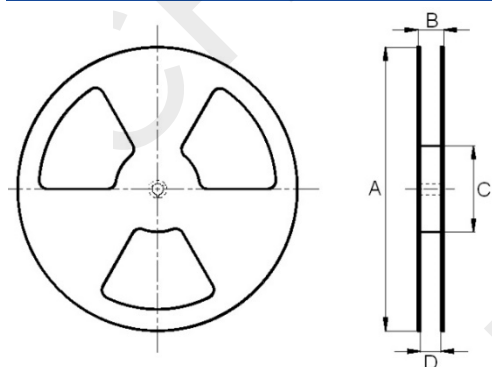
■ Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
8.0±0.2	4.0±0.1	3.3±0.1	3.3±0.1	1.5±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

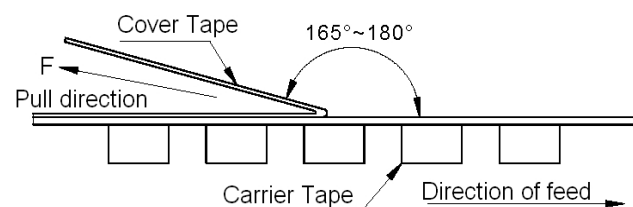
■ Reel (Unit:mm)

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

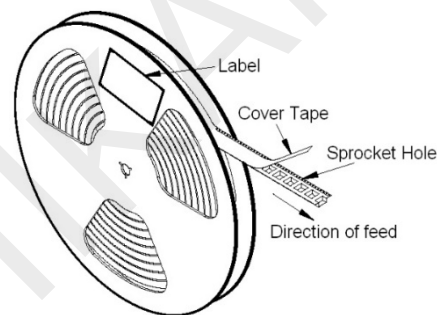


■ Taping Method

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.

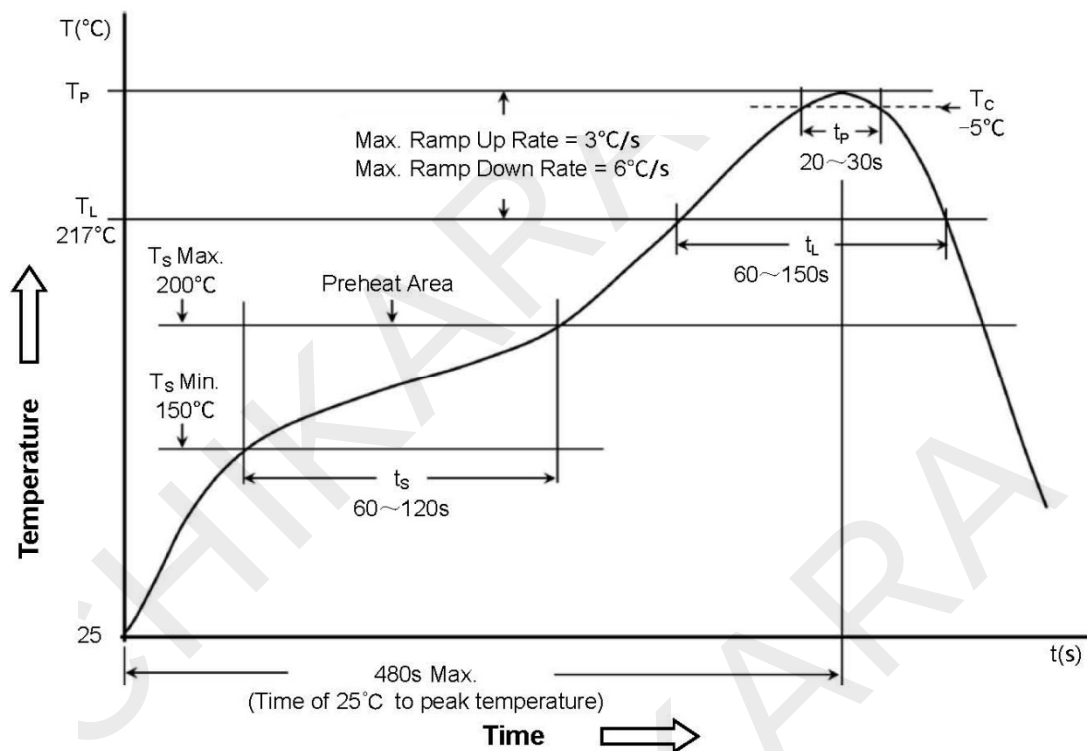


■ Package Quantity

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.