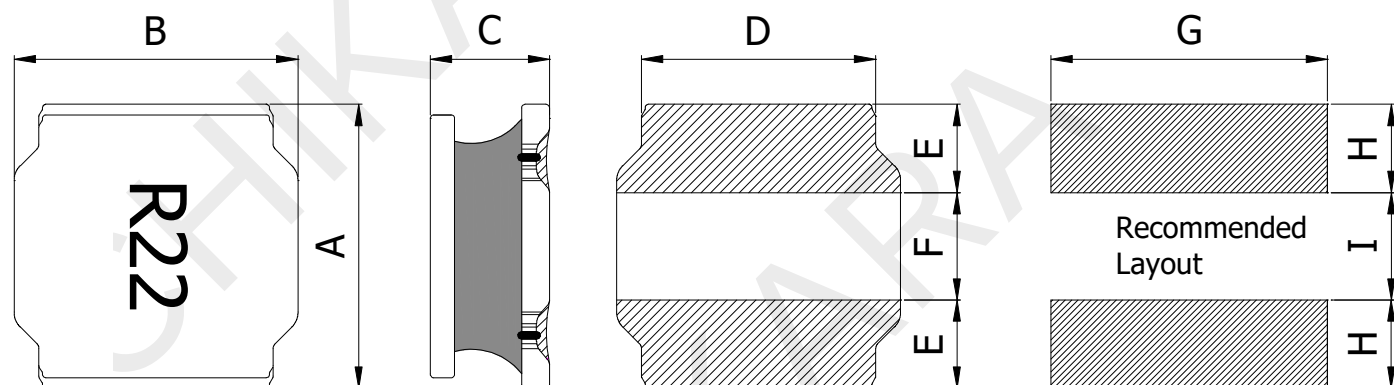


Features

- 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	1.55Max.	2.5±0.3	0.8±0.3	1.4±0.3	3.2	0.85	1.5

Part Number Description

SP07 - 030015 R22 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

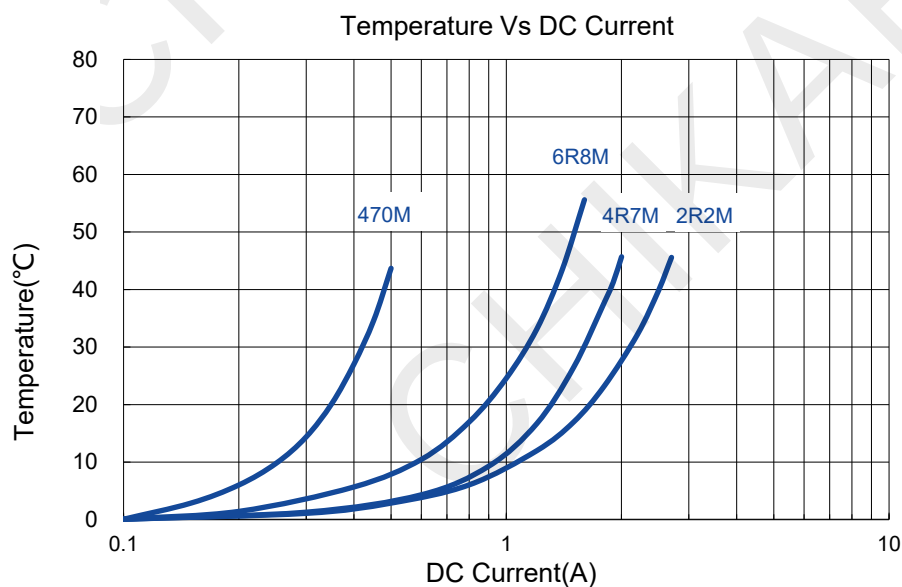
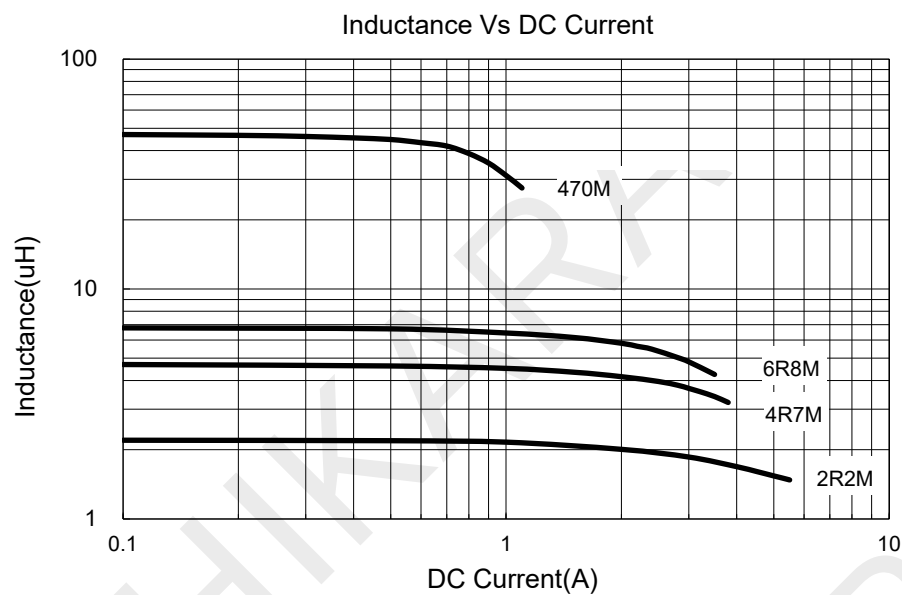


Electrical Characteristic

Part Number	Inductance L0(uH)	DCR		Isat		Irms	
		(mΩ)Max.	(mΩ)Typ.	(A)Max.	(A)Typ.	(A)Max.	(A)Typ.
SP07-030015R22M	0.22±20%	20	15	8.80	11.0	5.20	6.00
SP07-030015R24M	0.24±20%	20	15	8.60	10.6	5.00	5.90
SP07-030015R33M	0.33±20%	21	16	8.00	10.0	4.90	5.80
SP07-030015R47M	0.47±20%	26	20	7.60	9.50	4.60	5.00
SP07-030015R68M	0.68±20%	37	28	7.00	8.30	3.80	4.50
SP07-0300151R0M	1.0±20%	48	37	5.80	7.00	3.30	3.80
SP07-0300151R5M	1.5±20%	72	55	4.60	5.50	2.20	2.70
SP07-0300152R2M	2.2±20%	95	75	3.70	4.60	2.20	2.50
SP07-0300153R3M	3.3±20%	150	110	3.40	3.40	2.00	2.30
SP07-0300154R7M	4.7±20%	185	150	2.50	3.00	1.70	1.90
SP07-0300155R6M	5.6±20%	250	190	2.20	2.80	1.50	1.75
SP07-0300156R8M	6.8±20%	320	250	2.00	2.40	1.20	1.35
SP07-030015100M	10±20%	450	350	1.60	2.00	1.10	1.20
SP07-030015150M	15±20%	610	460	1.45	1.75	1.00	1.10
SP07-030015220M	22±20%	910	700	1.00	1.20	0.56	0.66
SP07-030015330M	33±20%	1260	970	0.90	1.10	0.50	0.60
SP07-030015470M	47±20%	1900	1450	0.80	0.86	0.42	0.48

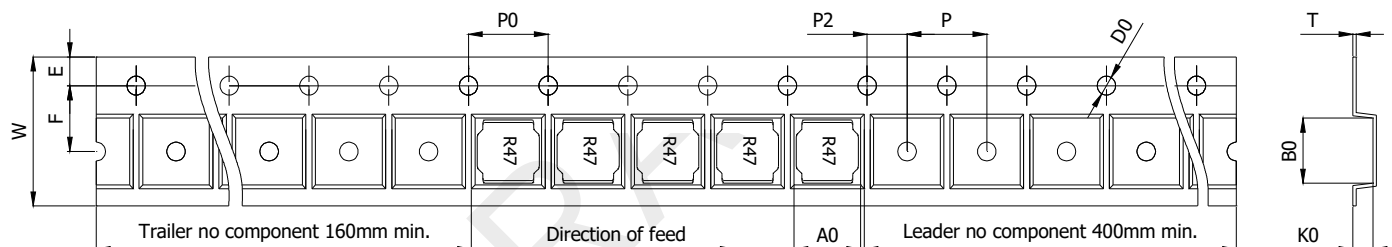
- Test frequency and voltage:1MHz,1Vrms.
- All test data referenced to 25°C ambient.
- Absolute maximum voltage: 40V.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Characteristic Curve (Typical value)



Packaging Specification

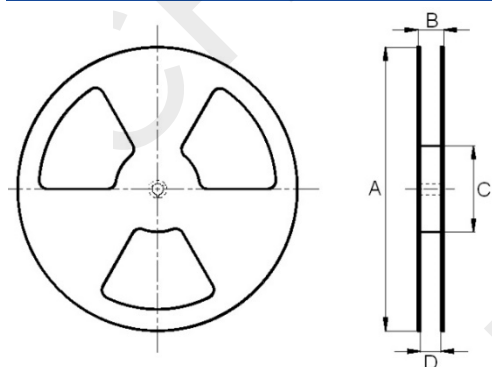
■ Carrier Tape (Unit:mm)



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	1.8±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

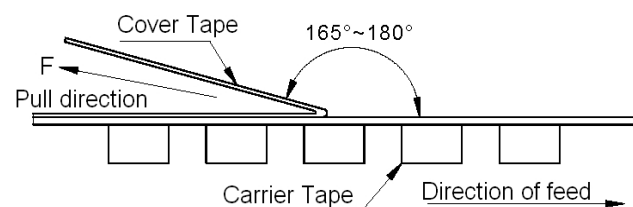
■ Reel (Unit:mm)

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

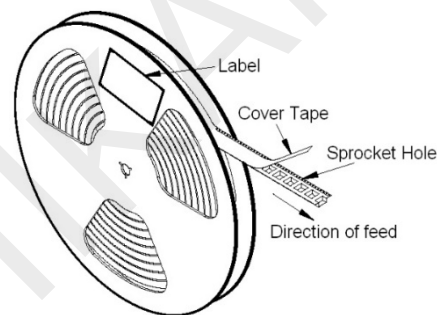


■ Taping Method

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.

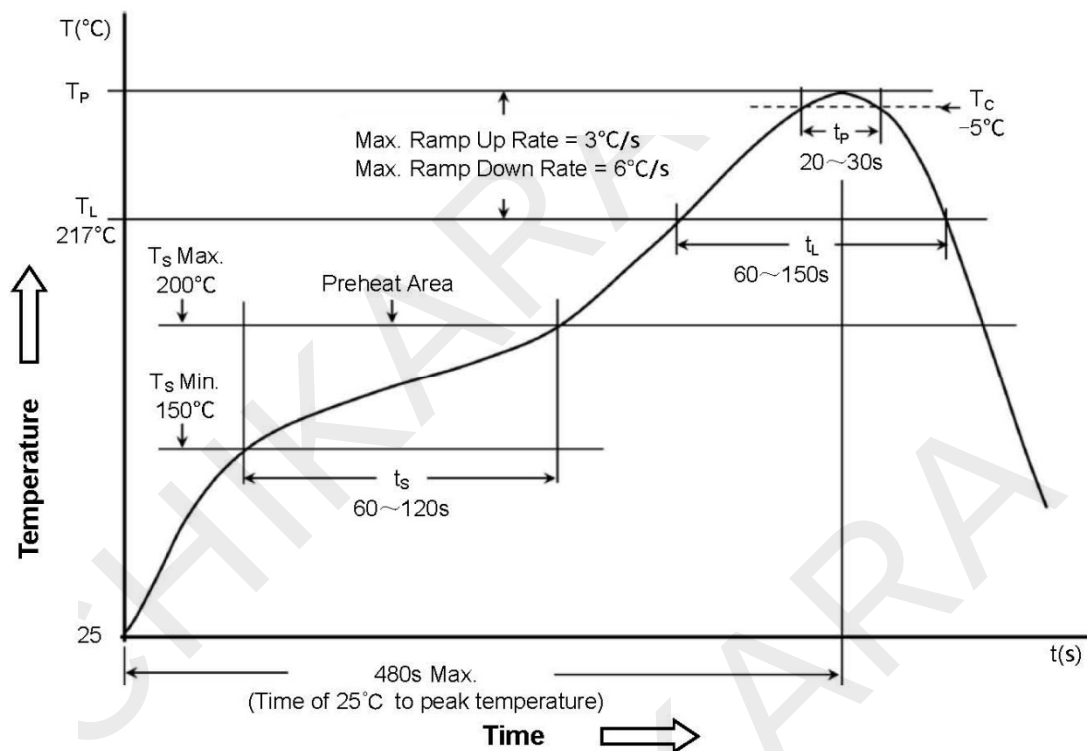


■ Package Quantity

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.