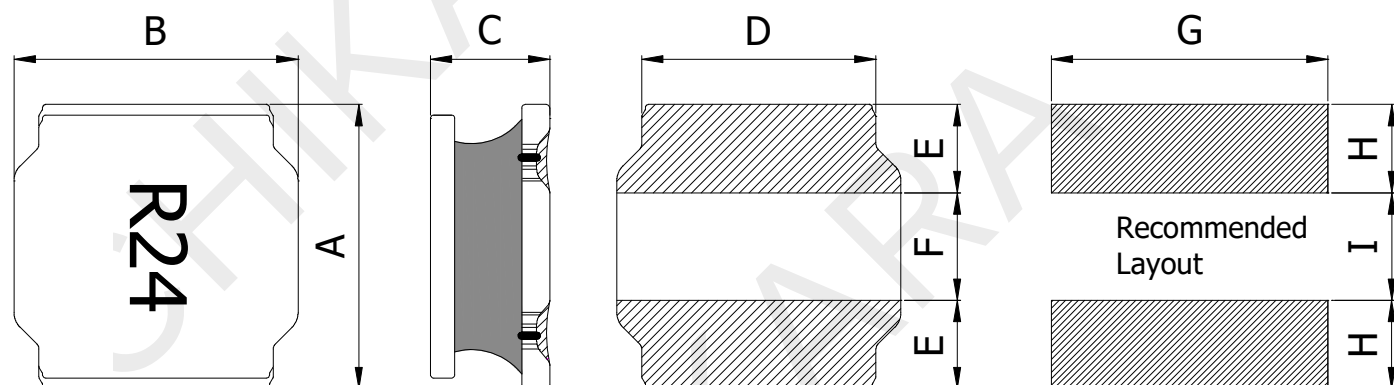


Features

- 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:3000pcs. Per 13-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	2.2Max.	2.5±0.3	0.8±0.3	1.4±0.3	3.2	0.85	1.5

Part Number Description

SP07 - 030020 R24 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

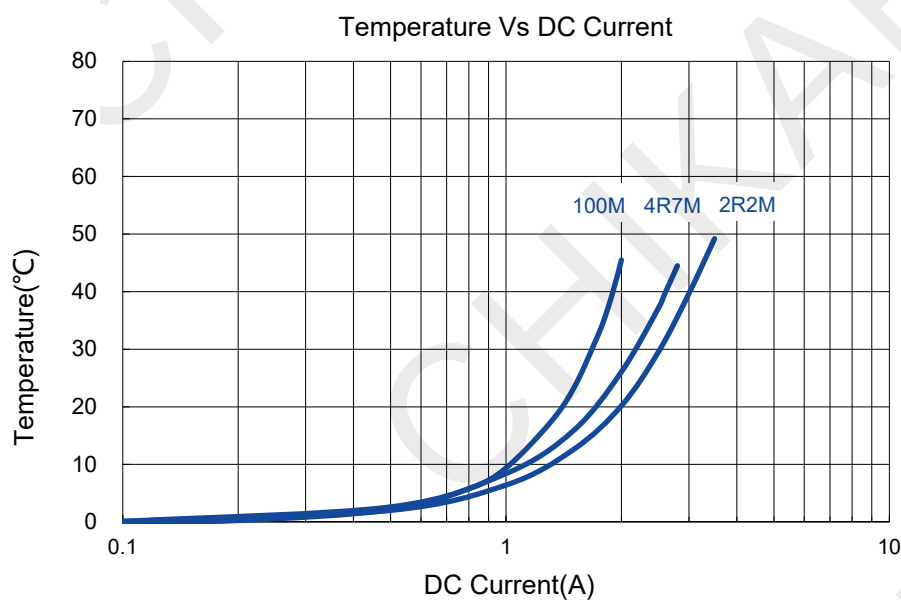
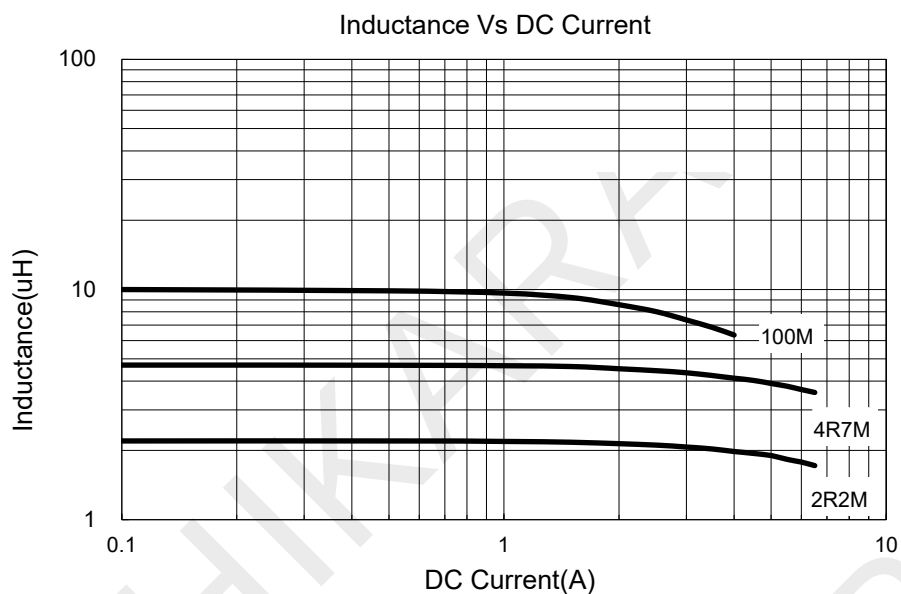


Electrical Characteristic

Part Number	Inductance L0(uH)	DCR		Isat		Irms	
		(mΩ)Max.	(mΩ)Typ.	(A)Max.	(A)Typ.	(A)Max.	(A)Typ.
SP07-030020R24M	0.24±20%	20.0	16.0	12.5	14.5	6.0	7.1
SP07-030020R33M	0.33±20%	25.0	19.0	12.0	13.5	5.5	6.8
SP07-030020R47M	0.47±20%	25.0	19.0	11.0	12.5	5.8	6.5
SP07-030020R68M	0.68±20%	42.0	32.0	10.0	11.0	5.0	5.8
SP07-0300201R0M	1.0±20%	45.0	36.0	8.0	10.0	4.5	5.2
SP07-0300201R2M	1.2±20%	53.0	41.0	7.5	9.5	3.8	4.5
SP07-0300202R2M	2.2±20%	88.5	68.0	5.3	6.0	2.5	3.0
SP07-0300203R3M	3.3±20%	128	99.0	4.6	5.5	2.3	2.8
SP07-0300204R7M	4.7±20%	152	118	4.0	5.0	2.2	2.6
SP07-030020100M	10±20%	403	310	2.3	3.0	1.5	1.9

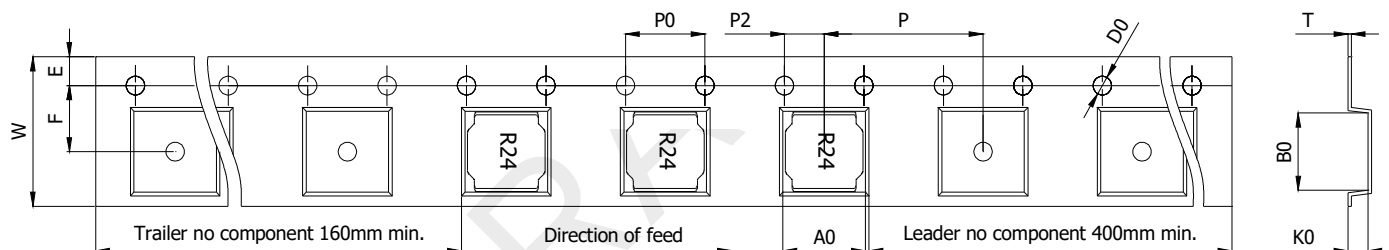
- Test frequency and voltage:1MHz,1Vrms.
- All test data referenced to 25°C ambient.
- Absolute maximum voltage: 40V.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Characteristic Curve (Typical value)



Packaging Specification

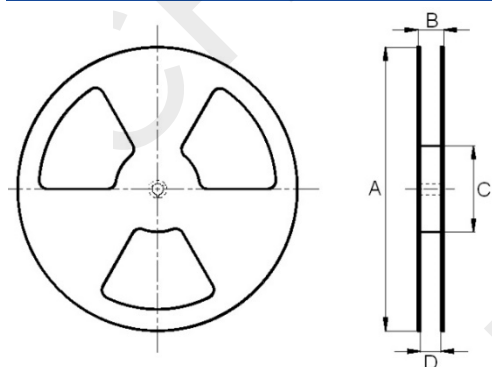
■ Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
12.0±0.3	8.0±0.1	3.3±0.1	3.3±0.1	2.5±0.1	1.75±0.1	5.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.30±0.05

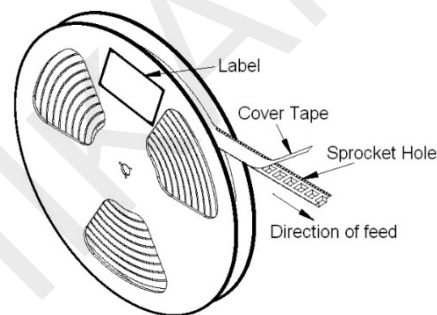
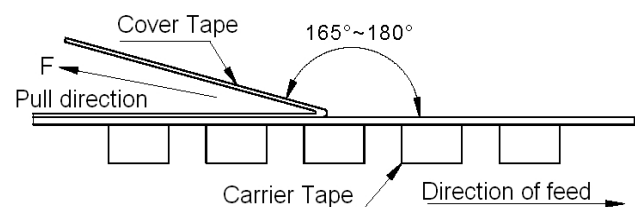
■ Reel (Unit:mm)

A	B	C	D
Φ330±1.0	18.4Max.	Φ100±1.0	13.0±0.5



■ Taping Method

Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.0N	165°~180°	300mm/min.



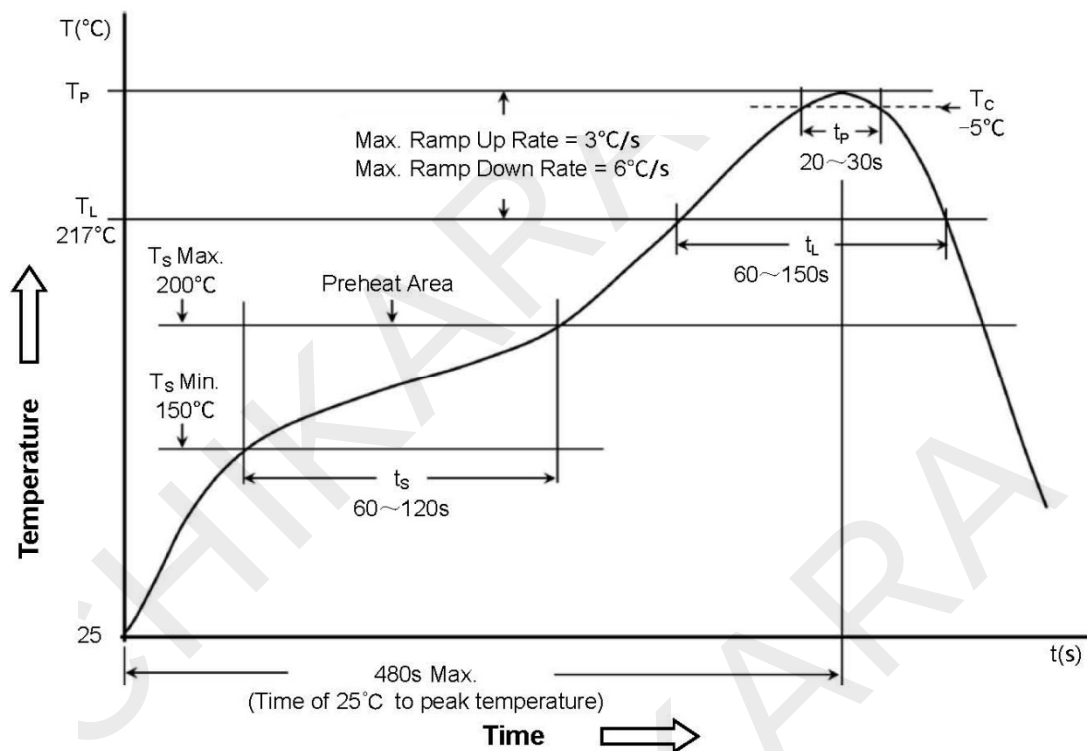
※ Packing is referred to the international standard IEC 60286-3.

■ Package Quantity

Parts per reel
3000Pcs

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.