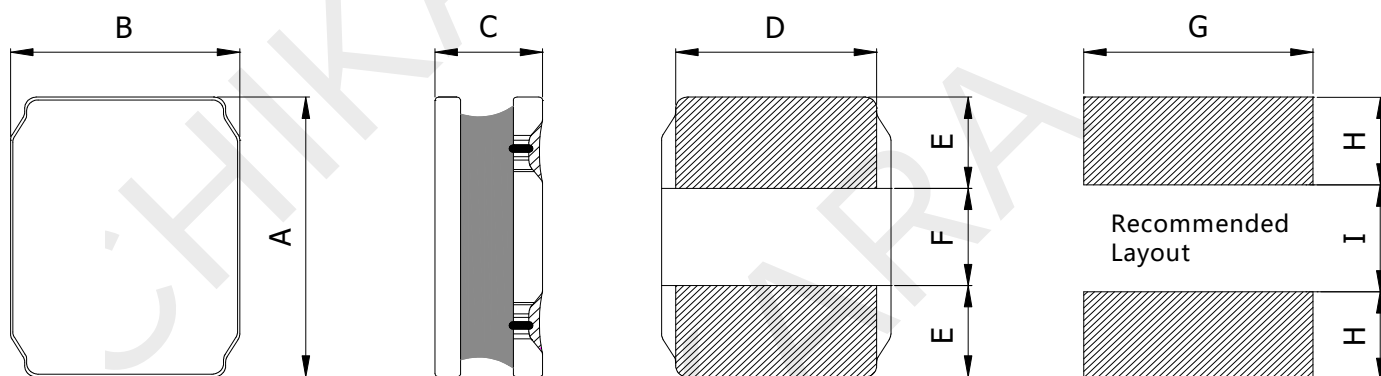


Features

- 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
2.5±0.2	2.0±0.2	1.28Max.	1.5±0.2	0.8±0.2	0.8±0.2	2.0	0.95	0.8

Part Number Description

SP07 - 252012 R24 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

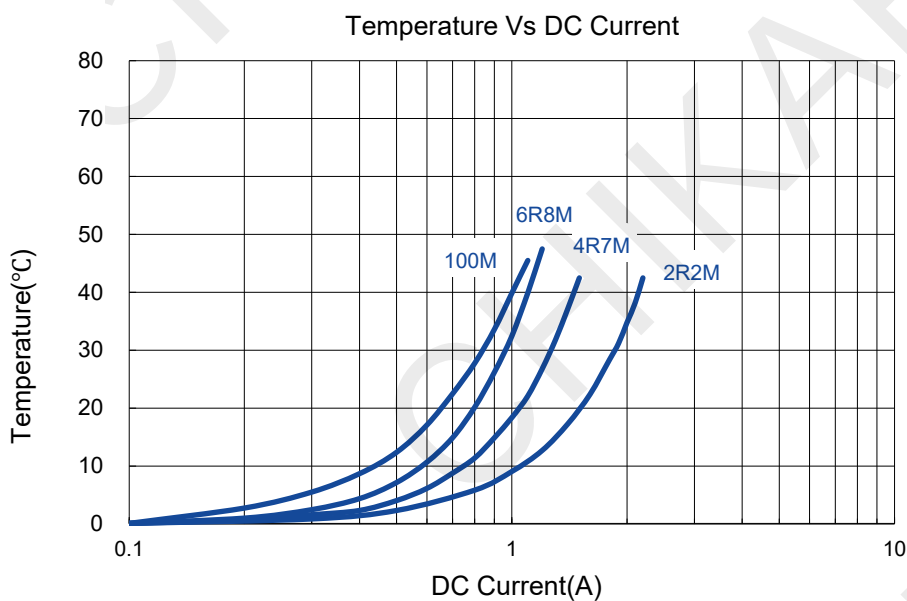
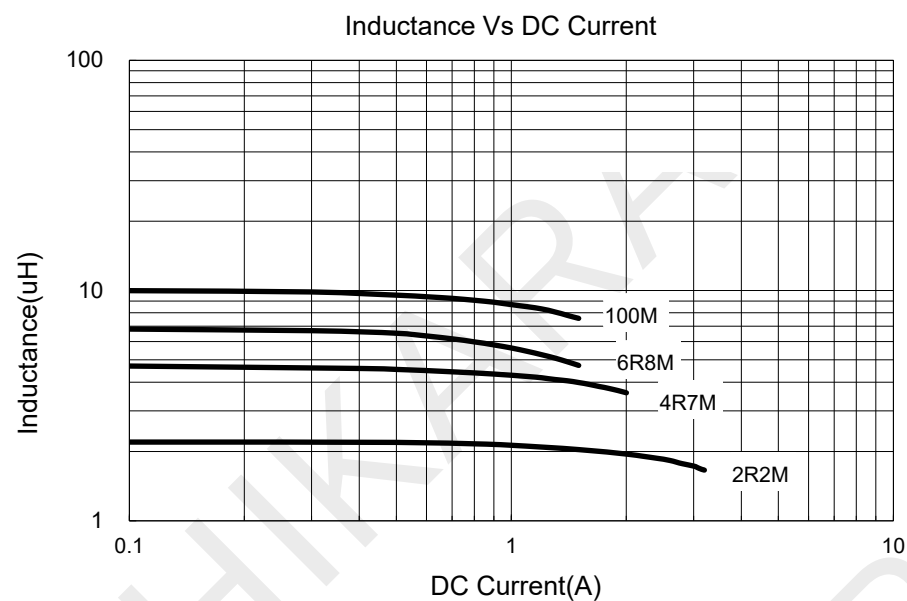


Electrical Characteristic

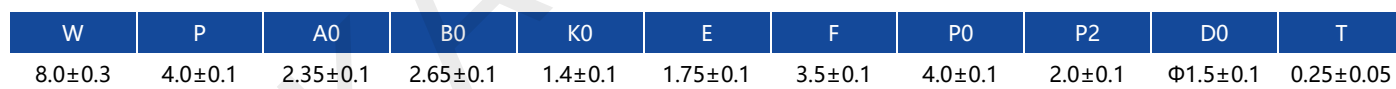
Part Number	Inductance L0(uH)	DCR		Isat		Irms	
		(mΩ)Max.	(mΩ)Typ.	(A)Max.	(A)Typ.	(A)Max.	(A)Typ.
SP07-252012R24M	0.24±20%	24	19	6.50	7.80	4.10	4.70
SP07-252012R33M	0.33±20%	28	23	5.40	6.30	3.70	4.30
SP07-252012R47M	0.47±20%	35	29	4.90	5.60	3.45	4.00
SP07-252012R68M	0.68±20%	46	39	3.80	4.50	3.20	3.60
SP07-2520121R0M	1.0±20%	54	48	3.60	4.20	3.00	3.40
SP07-2520121R5M	1.5±20%	78	60	2.90	3.50	2.40	2.80
SP07-2520122R2M	2.2±20%	120	100	2.60	3.00	1.90	2.15
SP07-2520123R3M	3.3±20%	215	175	1.70	2.10	1.50	1.80
SP07-2520124R7M	4.7±20%	260	225	1.60	1.90	1.25	1.40
SP07-2520126R8M	6.8±20%	368	305	1.20	1.40	0.97	1.10
SP07-252012100M	10±20%	480	435	1.10	1.30	0.85	1.00

- Test frequency and voltage:1MHz,1Vrms.
- All test data referenced to 25°C ambient.
- Absolute maximum voltage: 30Vdc.
- 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)

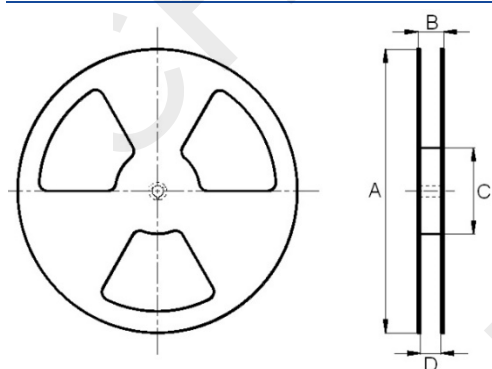


- Carrier Tape (Unit:mm)



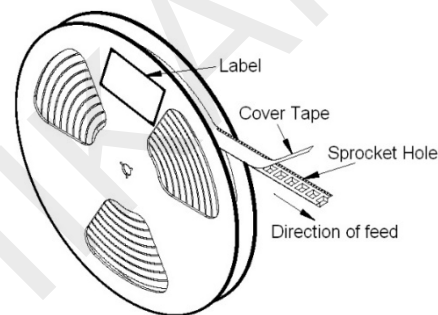
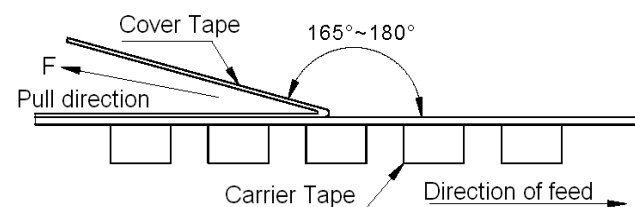
- Reel (Unit:mm)

A	B	C	D
$\Phi 178 \pm 2.0$	11.5Max.	$\Phi 50 \text{Min.}$	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.

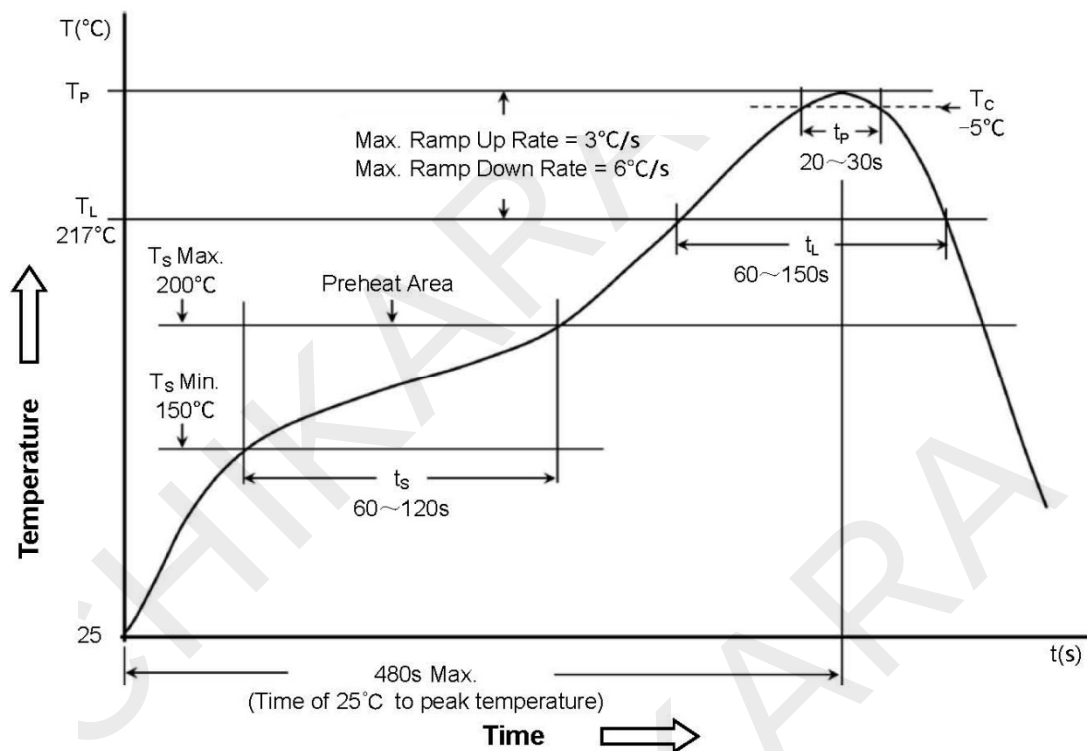
- Package Quantity

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.