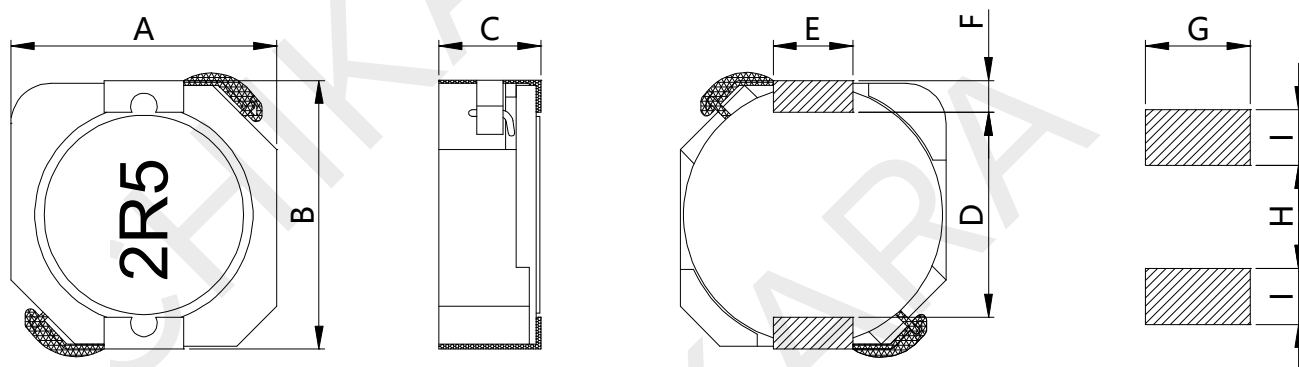


Features

- Magnetically 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 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



Recommended Layout

A	B	C	D	E	F	G	H	I
6.2Max.	6.3Max.	3.0Max.	4.7±0.3	2.0±0.1	0.6±0.2	2.6	4.6	1.0

Part Number Description

SP01 - 0603 2R5 N
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic

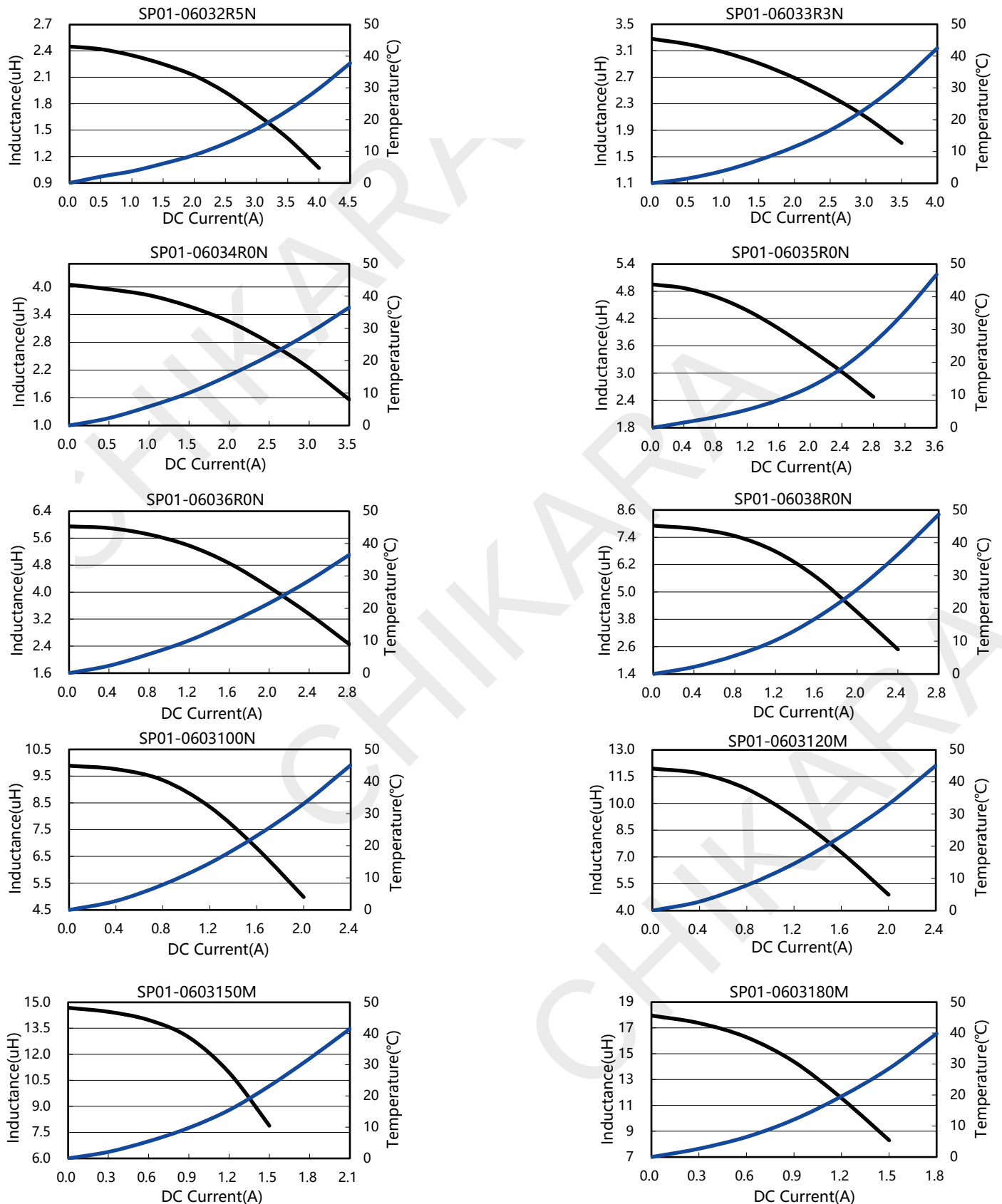


Electrical Characteristic

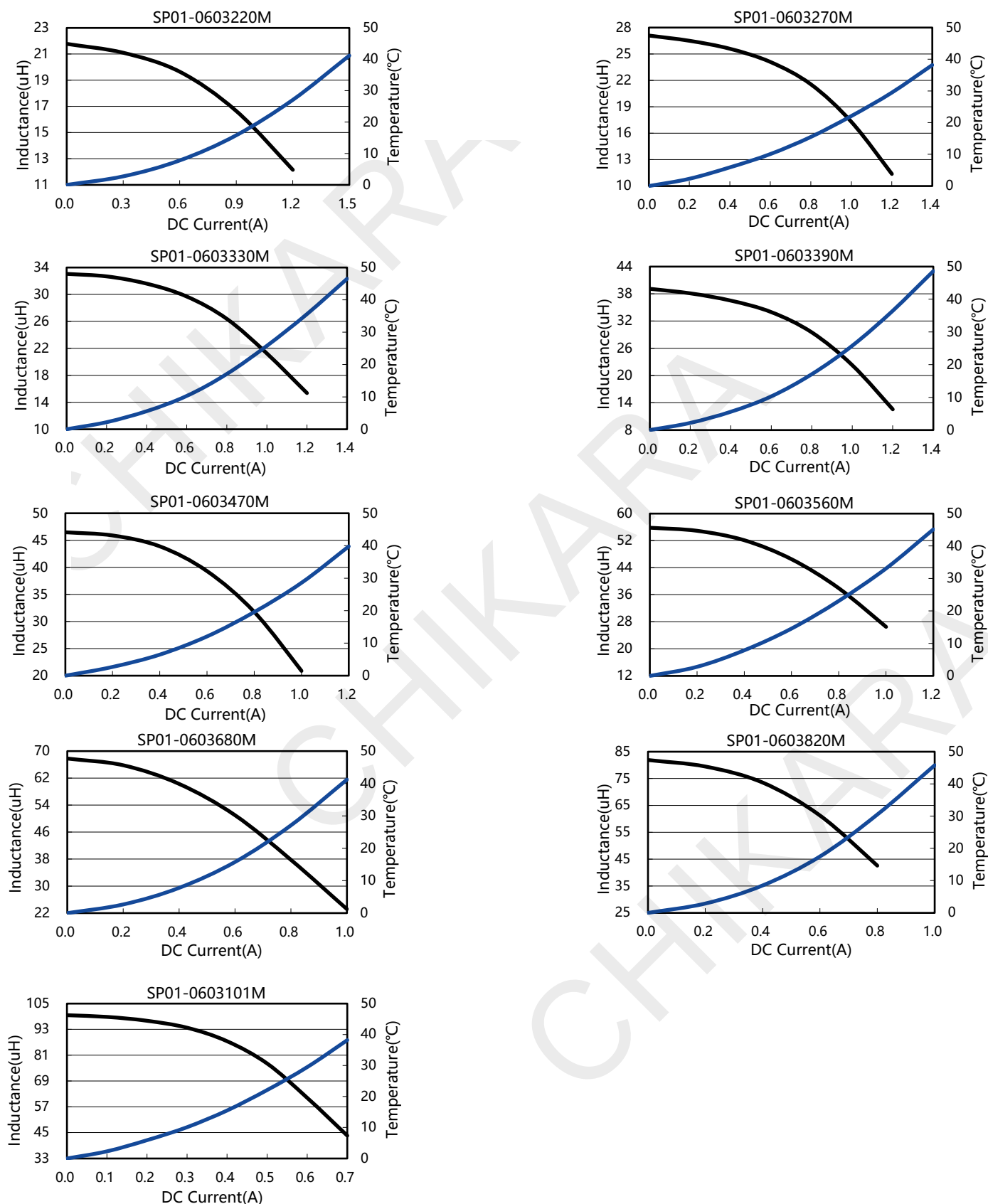
Part Number	Inductance L0(μH)	DCR		Isat	Irms	SRF
		(mΩ)Typ.	(mΩ)Max.	(A)Typ.	(A)Typ.	(MHz)Typ.
SP01-06032R5N	2.5±30%	14.0	17.6	2.70	4.40	58.0
SP01-06033R3N	3.3±30%	16.0	20.3	2.30	3.80	49.0
SP01-06034R0N	4.0±30%	20.0	27.0	2.20	3.50	41.0
SP01-06035R0N	5.0±30%	25.0	31.1	2.00	3.30	36.0
SP01-06036R0N	6.0±30%	28.0	41.9	1.80	2.80	34.0
SP01-06038R0N	8.0±30%	37.0	49.9	1.45	2.60	31.0
SP01-0603100N	10±30%	47.0	54.0	1.40	2.35	28.0
SP01-0603120M	12±20%	51.0	71.6	1.20	2.20	26.0
SP01-0603150M	15±20%	66.0	82.4	1.15	2.05	23.0
SP01-0603180M	18±20%	84.0	101.5	0.95	1.70	20.0
SP01-0603220M	22±20%	95.0	119.0	0.90	1.50	18.0
SP01-0603270M	27±20%	120.0	146.0	0.85	1.40	15.0
SP01-0603330M	33±20%	140.0	182.5	0.80	1.30	13.0
SP01-0603390M	39±20%	180.0	209.5	0.70	1.25	11.5
SP01-0603470M	47±20%	200.0	229.5	0.65	1.20	10.0
SP01-0603560M	56±20%	240.0	305.0	0.62	1.10	9.2
SP01-0603680M	68±20%	290.0	351.0	0.60	0.98	8.6
SP01-0603820M	82±20%	330.0	418.5	0.55	0.95	8.0
SP01-0603101M	100±20%	490.0	610.0	0.50	0.70	7.0

- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- 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)

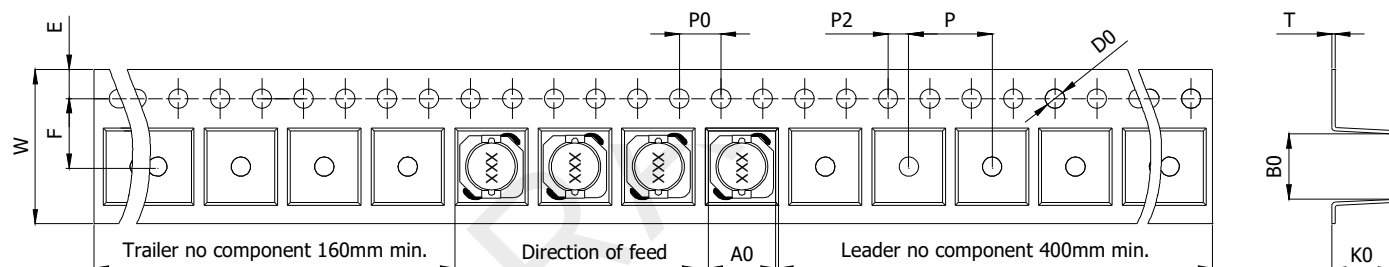


Characteristic Curve (Typical value)



Packaging Specification

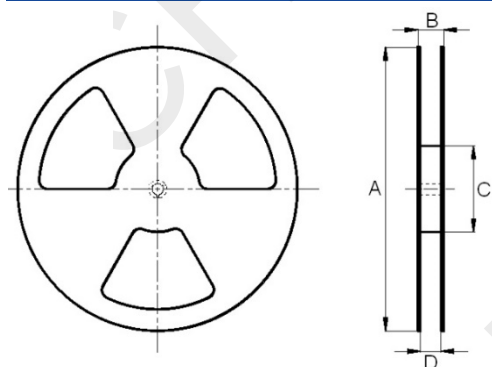
■ Carrier Tape (Unit:mm)



W	P	A0	B0	K0	E	F	P0	P2	D0	T
12±0.3	8±0.1	6.3±0.1	6.5±0.1	3.3±0.1	1.75±0.1	5.5±0.1	4.0±0.1	2.0±0.1	Φ1.5±0.1	0.35±0.05

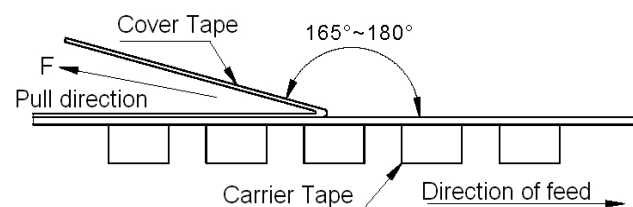
■ Reel (Unit:mm)

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



■ Taping Method

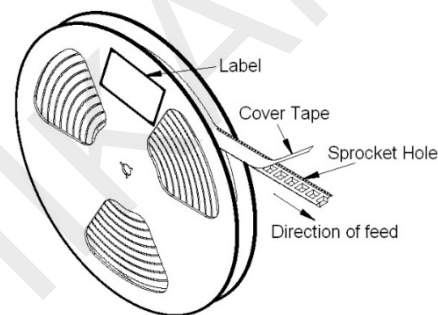
Peel-off strength	Peel-off angle	Peel-off speed
F=0.1N~1.0N	165°~180°	300mm/min.



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

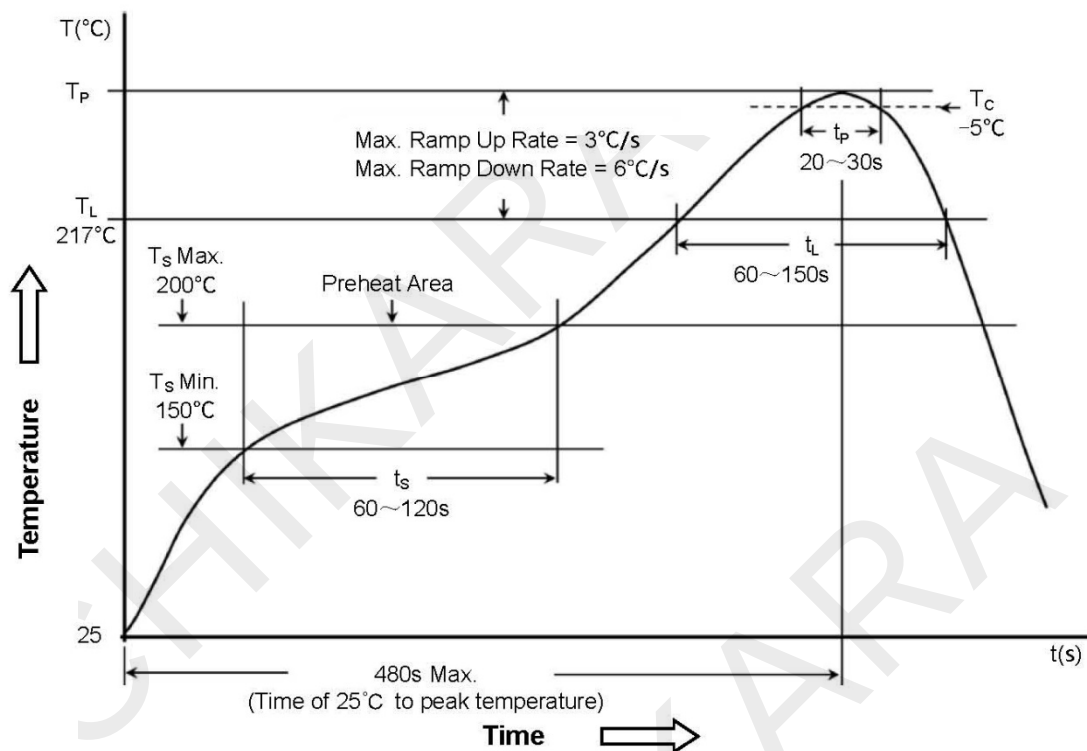
■ Package Quantity

Parts per reel
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.