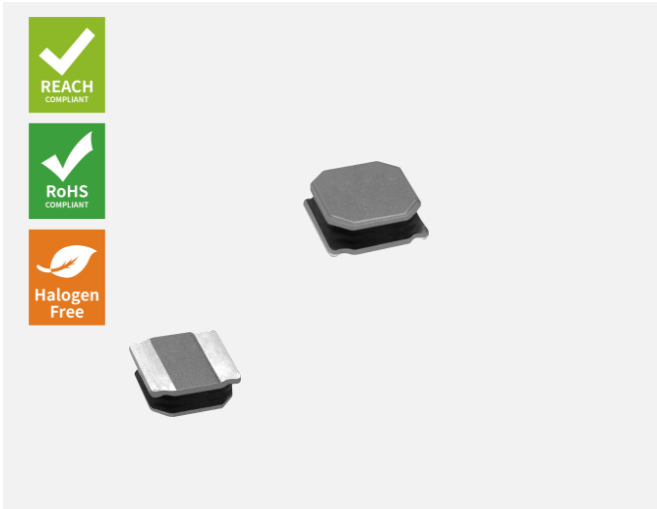


**SMD Power Inductor
APWC3015 Series**



Outline:

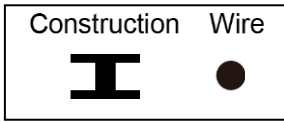
- Magnetic shielded structure:excellent resistance to electro Magmetic interference (EMI)
- Magnetic-resin shielded structure,ultra low buzz noise
- Small size, high rated current, low DCR.
- Carrier tape packing, suitable for SMT process.

Features:

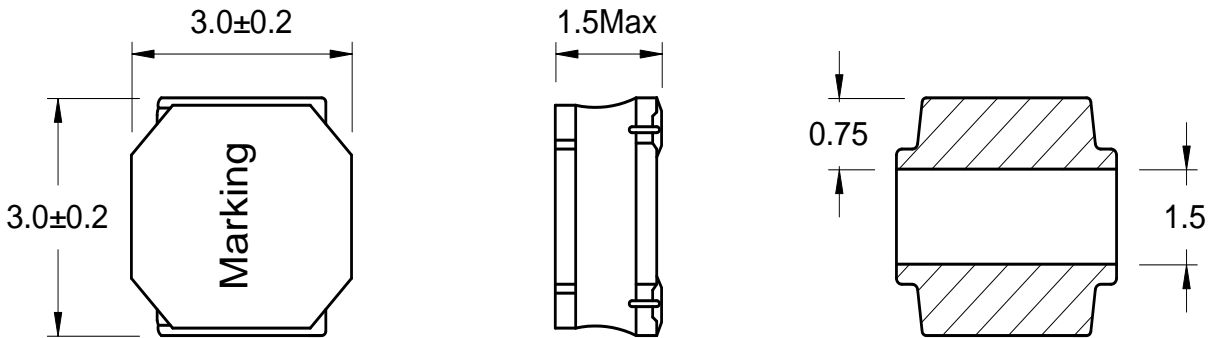
- Core matetial:Ferrite
- Enviromental:RoHS compliant ,halogen free
- Weight:0.05g
- Moisture Sensitivity:Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity).
- Operating temperature range: -40°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+125°C

Application:

- Widely used in DC-DC converter, mobile phone, PDA, DSC, and etc.



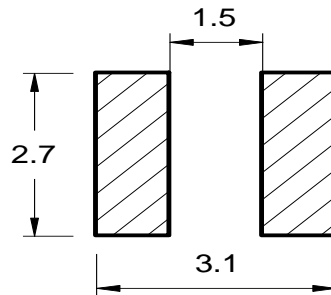
1 Product Dimensions (mm)



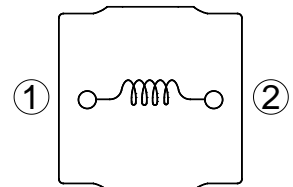
2 Marking



3 Reference land pattern (mm)

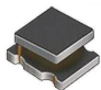


4 Schematic



This product is not authorized for use in any application related to safety. Specification subject to change without notice.Please check web site for latest information.

Revised: 07/14/2020



**SMD Power Inductor
APWC3015 Series**



5 Electrical Characteristics

Part No.	Inductance (μ H)※1	D.C.R.	Isat	Irms
		($m\Omega$)	(A)※2	(A)※3
		$\pm 30\%$	Max	Max
APWC3015-1R0N	1.00 \pm 30%	39.0	2.32	2.35
APWC3015-1R5N	1.50 \pm 30%	65.0	2.30	1.70
APWC3015-2R2N	2.20 \pm 30%	78.0	1.60	1.60
APWC3015-3R3M	3.30 \pm 20%	104	1.32	1.36
APWC3015-4R7M	4.70 \pm 20%	163	1.10	1.09
APWC3015-6R8M	6.80 \pm 20%	260	0.85	0.85
APWC3015-100M	10.0 \pm 20%	325	0.72	0.77
APWC3015-120M	12.0 \pm 20%	416	0.70	0.68
APWC3015-150M	15.0 \pm 20%	455	0.66	0.65
APWC3015-180M	18.0 \pm 20%	559	0.56	0.59
APWC3015-220M	22.0 \pm 20%	589	0.52	0.57
APWC3015-270M	27.0 \pm 20%	949	0.48	0.45
APWC3015-330M	33.0 \pm 20%	1,066	0.44	0.43
APWC3015-390M	39.0 \pm 20%	1,294	0.41	0.39
APWC3015-470M	47.0 \pm 20%	1,625	0.35	0.35
APWC3015-560M	56.0 \pm 20%	1,664	0.33	0.34

All data is tested on 25°C ambient temperature

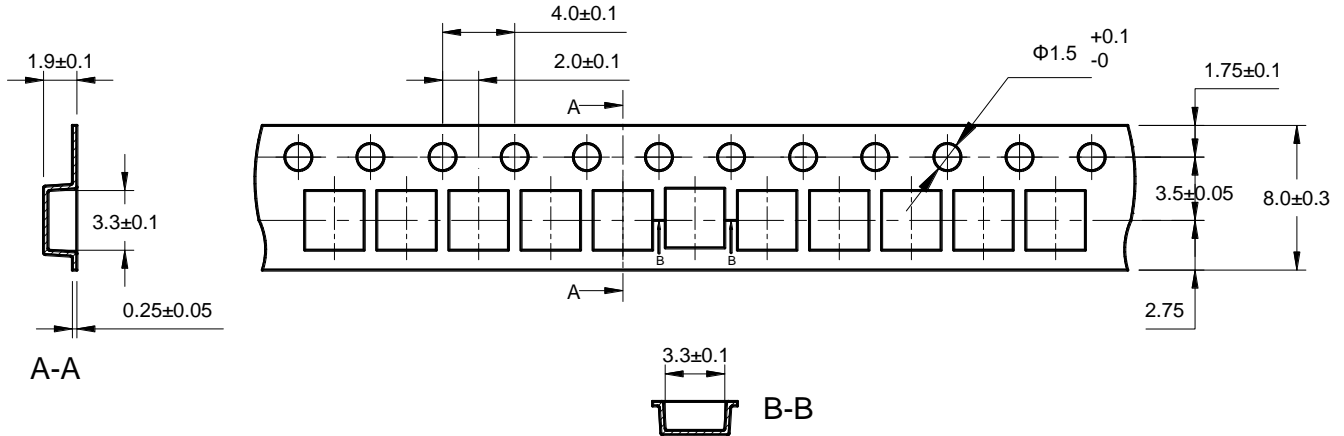
1. Inductance measure condition at 100kHz,1V
2. Isat: the actual value of DC current when the inductance decrease 30% of its initial value.
3. Irms:the actual value of DC current when the temperature rise is $\Delta T 40^{\circ}C$ ($T_a=25^{\circ}C$)



**SMD Power Inductor
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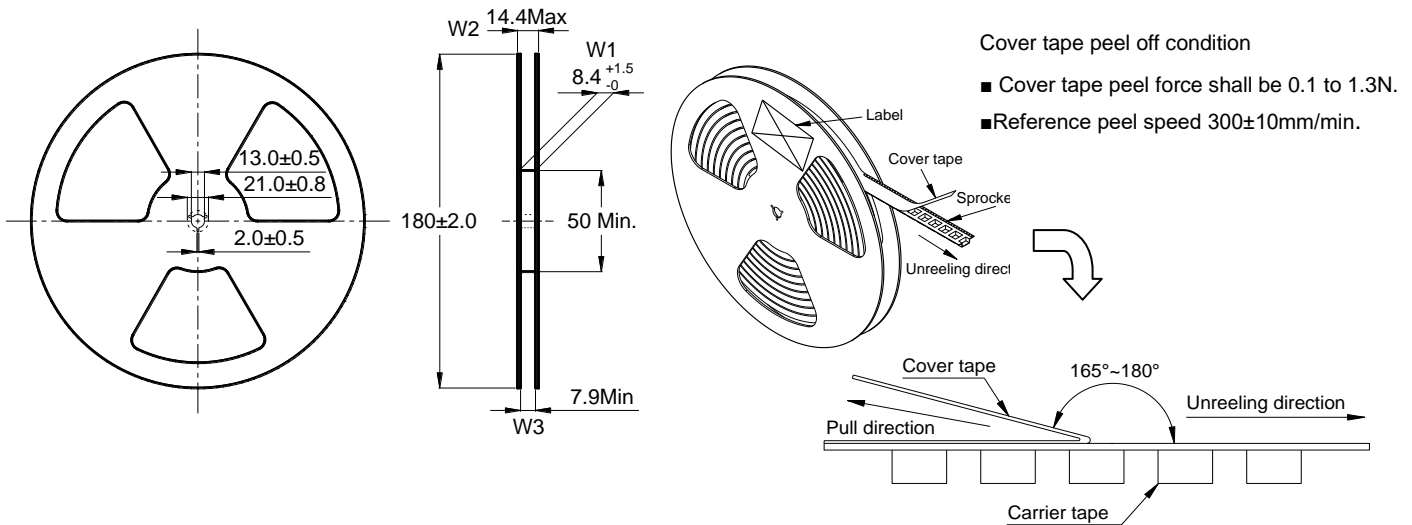
6 Packing Specification

6.1 Carrier Tape Dimensions (mm)



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

7.2 Reel Dimensions (mm)



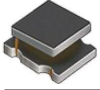
7.3 Carton Dimensions and Packing Quantity

- Inner Carton: 187×187×77mm
- Out Carton : 400×205×205mm

Product Series	Quantity / Reel	Inner Carton Quantity	Out Carton Quantity
APWC3015	2000pcs	(2000×3) = 6000pcs	(6000×2) = 12000pcs

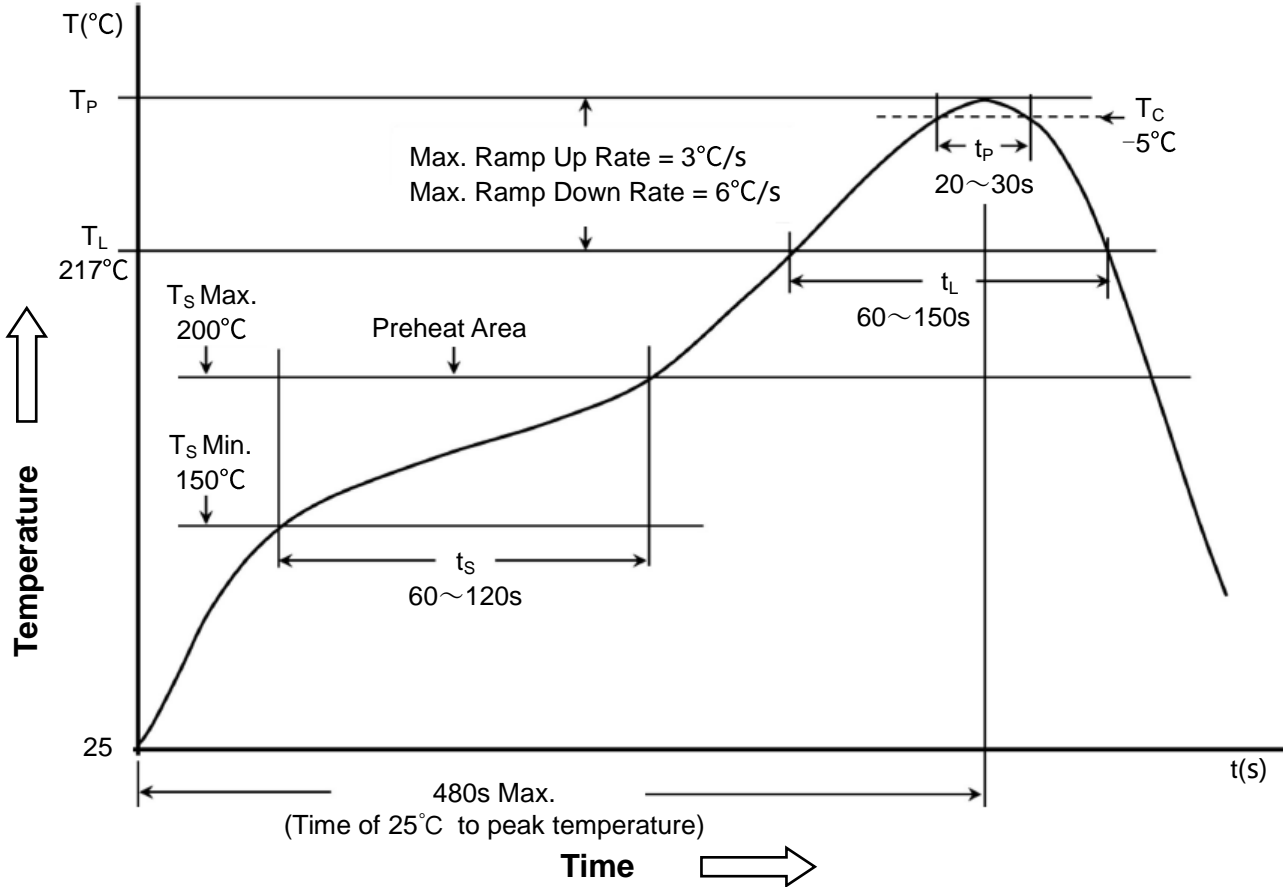
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8 Soldering Specification

8.1 Reflow Profile for SMT Components



8.2 Classification of Peak Package Body Temperature (T_P)

	Package Thickness	Package Volume		
		<350 mm ³	350~2000 mm ³	>2000 mm 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.