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SMT Power Inductors

Shielded Drum Core - PA4337.XXXNLT Series

Pulse
a YAGEO company



- ***Height:*** *4.5mm Max*
- ***Footprint:*** *6.3mm x 6.3mm Max*
- ***Current Rating:*** *up to 6.5A*
- ***Inductance Range:*** *0.47uH to 1500uH*
- *Shielded magnetic circuit reduces leakage flux, Fe base metal core enables high saturation and metalized core termination results in excellent shock resistance.*

Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

Part Number	Inductance 100 KHz, 1V	DC Resistance	Saturation Current	Rated Current
		± 30%	≤30% Drop	<40 °C Rise
	uH	mΩ	A	A
PA4337.471NLT	0.47±30%	8	10.00	6.50
PA4337.472NLT	4.7±20%	26	5.00	3.00
PA4337.103NLT	10.0±20%	46	3.30	2.50
PA4337.333NLT	33.0±20%	140	1.65	1.40
PA4337.104NLT	100±20%	416	1.00	0.80
PA4337.334NLT	330±20%	2000	0.50	0.45
PA4337.105NLT	1000±20%	4500	0.30	0.30
PA4337.155NLT	1500±20%	6989	0.28	0.21

Notes:

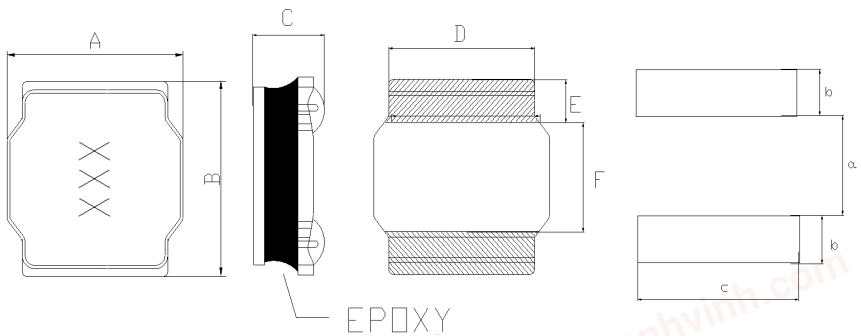
1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.

2. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effect) to the component.

3. The Rated Current is the DC current required to raise the component temperature by 40 °C maximum. Take note that the component's performance varies depending on the system condition. It is suggested that the component be tested at the system level, to verify the temperature rise of the component during system operation.

Mechanical

PA4337.XXXNLT



Final Layout

SUGGESTED PAD LAYOUT

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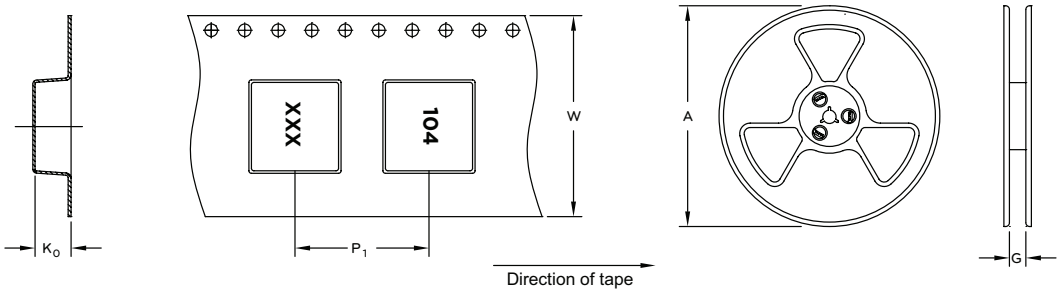
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Series	A	B	C	D	E	F	a	b	c
PA4337.XXXNLT	6.0±0.3	6.0±0.3	4.5MAX	4.9±0.3	1.65±0.3	2.7±0.3	2.4 TYP	1.85TYP	5.1 TYP

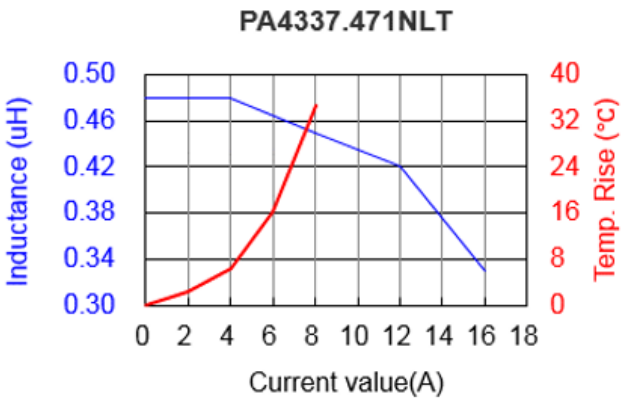
All Dimensions in mm.

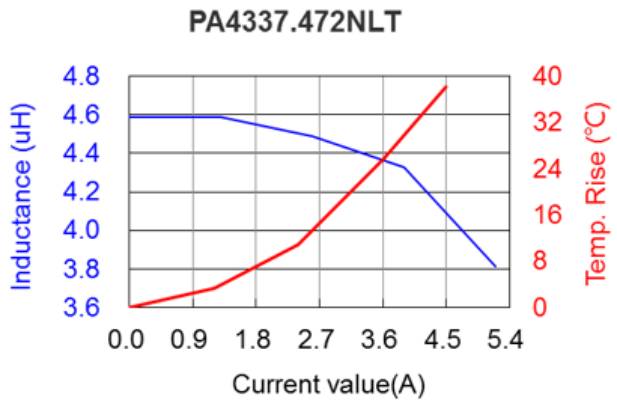
TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST						
TYPE	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P_1	W	K_0	PCS/REEL
PA4337.XXXNLT	Ø330	16.5	8	16	4.75	1500

Typical Performance Curves



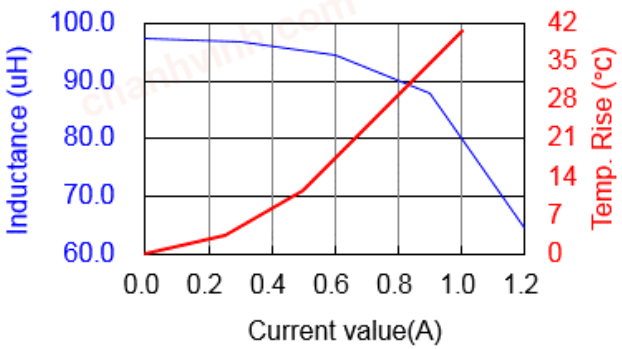


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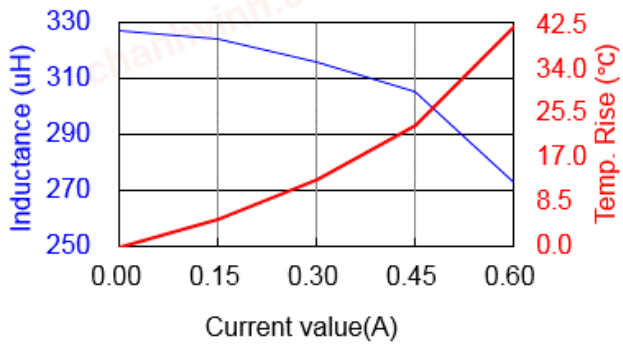
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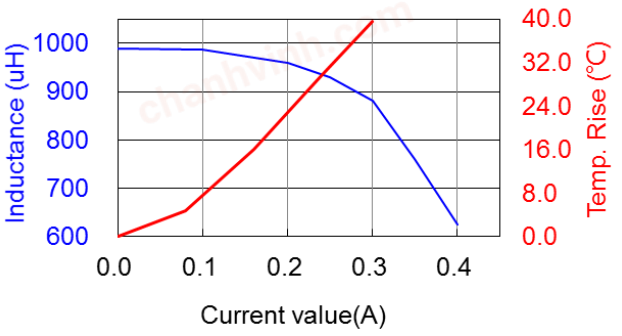
PA4337.104NLT



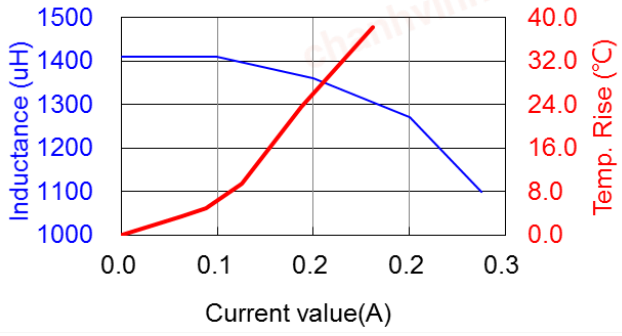
PA4337.334NLT



PA4337.105NLT



PA4337.155NLT



For More Information

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