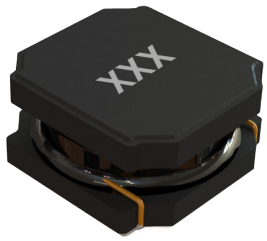
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SMT Power Inductor

Shielded Drum Core - PA4332.XXXNLT Series

Pulse
a YAGEO company



- ***Height:*** *2.0mm Max*
- ***Footprint:*** *4.2mm x 4.2mm Max*
- ***Current Rating:*** *up to 5.8A*
- ***Inductance Range:*** *1.0uH to 10.0uH*
- *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 1MHz, 1V	Rated Current	Min. Self-Resonant Frequency	DC Resistance		Saturation Current (20˚C)	Heating Current ΔT ≈ 40˚C
				MAX.	TYP.		
	uH ±20%	A	MHz	mΩ	mΩ	A	A
PA4332.102NLT	1.0	5.80	37	26	22	8.50	5.80
PA4332.152NLT	1.5	5.20	30	36	30	7.70	5.20
PA4332.222NLT	2.2	4.30	25	48	40	6.10	4.30
PA4332.332NLT	3.3	3.45	19	72	60	4.70	3.45
PA4332.472NLT	4.7	2.85	17	108	90	4.00	2.85
PA4332.682NLT	6.8	2.40	13	156	130	3.00	2.40
PA4332.103NLT	10.0	2.00	11	216	180	2.80	2.00

Notes:

1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
2. The rated current as listed is either the saturation current (@ 20°C) or the heating current (ΔT ≈ 40°C) depending on which value is lower.
3. 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.
4. The heating current is the DC current required to raise the component temperature by approximately 40°C. Take note that the components' 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.
5. Maximum voltage across terminals to be limited to <40Vdc

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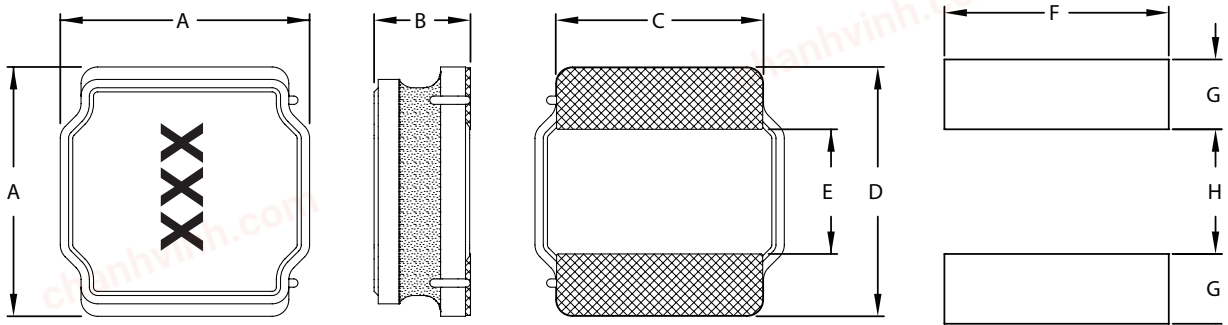
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Mechanical

PA4332.XXXNLT



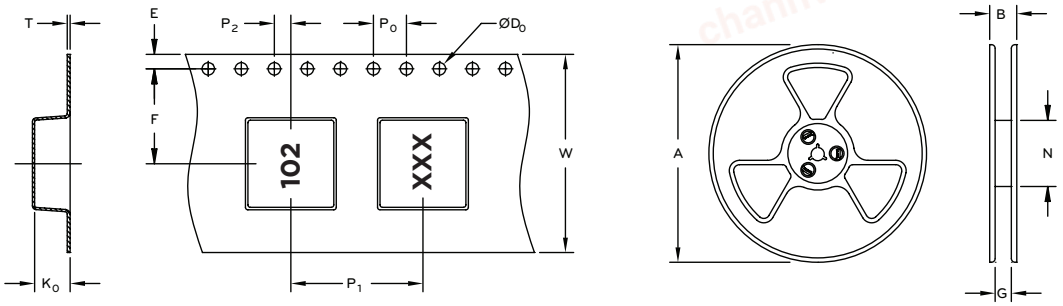
Final Layout

SUGGESTED PAD LAYOUT

Series	A	B	C	D	E	F	G	H
PA4332.XXXNLT	4.2 MAX	2.0 MAX	(3.1)	(4.0)	(2.1)	(3.7)	(1.1)	(1.9)

All Dimensions in mm.

TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST														
	REEL SIZE (mm)				TAPE SIZE (mm)									QTY
	A	B	G	N	E	F	D_0	P_1	P_0	P_2	W	T	K_0	PCS/REEL
PA4332.XXXNLT	Ø330	18.4	12.4	100	1.75	5.5	1.5	8	4	2	12	0.40	2.4	3000

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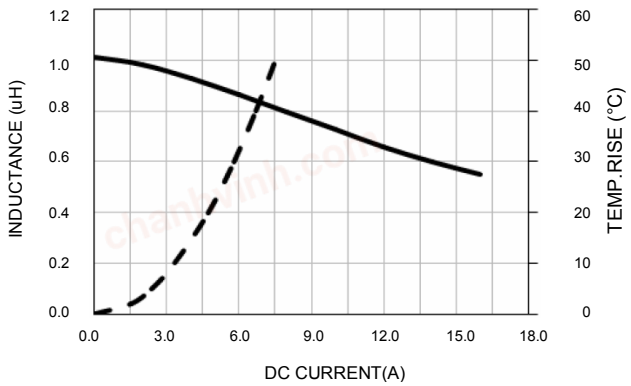
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Shielded Drum Core - PA4332.XXXNLT Series

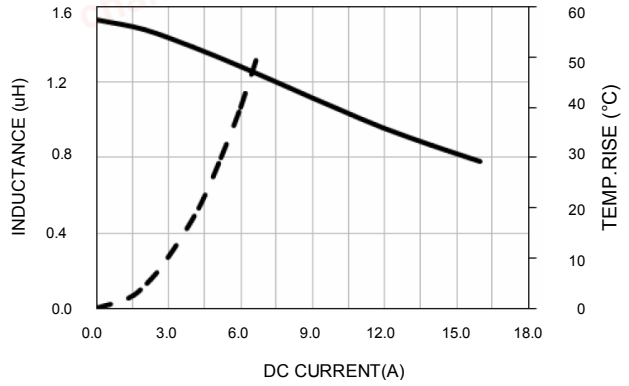
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TAPE & REEL INFO

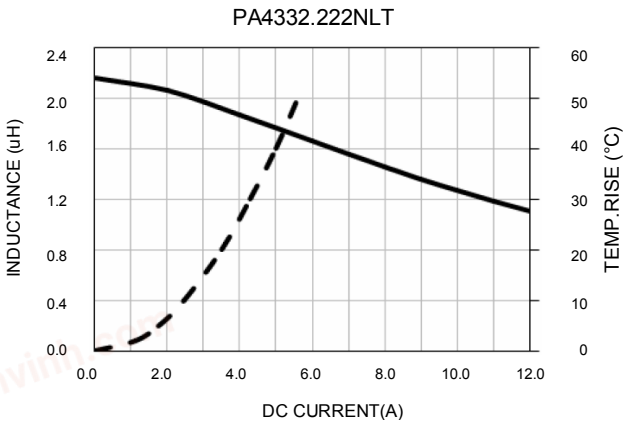
PA4332.102NLT



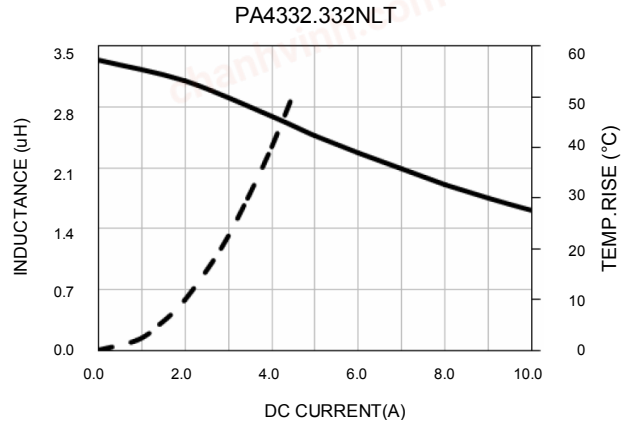
PA4332.152NLT



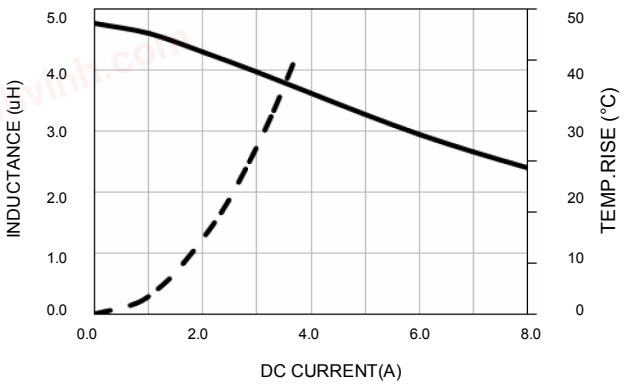
PA4332.222NLT



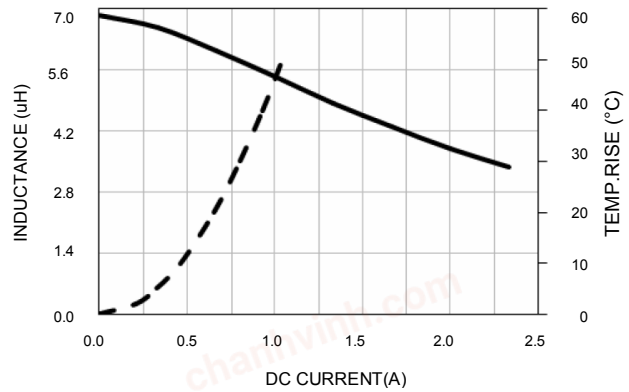
PA4332.332NLT



PA4332.472NLT



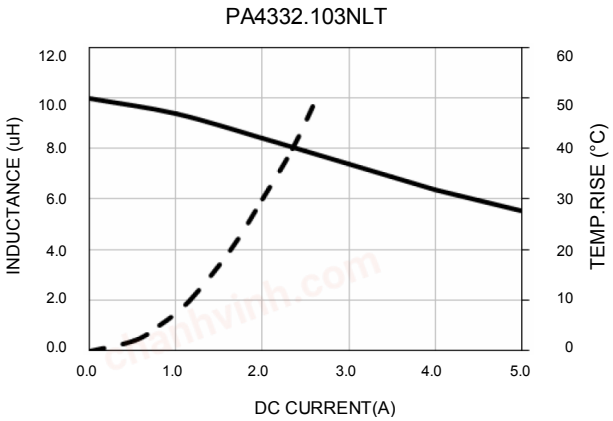
PA4332.682NLT



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