SMT Power Inductors

Shielded Drum Core - PA4338.XXXNLT & PA4338.XXXCNLT Series

Pulse a YAGEO company

- ***Height:*** *4.2mm Max*
- ***Footprint:*** *8.3mm x 8.3mm Max*
- ***Current Rating:*** *up to 6.3A*
- ***Inductance Range:*** *0.82uH to 330uH*
- *Shielded magnetic circuit reduces leakage flux, Fe base metal core enables high saturation and metalized core termination results in excellent shock resistance.*
- *NiZn Ferrite Core Material*

Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C				
Part Number	**Inductance[4] 100 KHz, 1V**	**DC Resistance**	**Saturation Current**	**Rated Current**
			≤30% Drop	**< 40˚C Rise**
	uH ±20%	**mΩ MAX**	**A**	**A**
PA4338.471NLT	0.47*	8.45	14.00	9.50
PA4338.821NLT	0.82*	10.40	13.80	8.50
PA4338.472NLT	4.7*	24.70	5.90	5.00
PA4338.682NLT	6.8	31.20	4.55	3.60
PA4338.103NLT	10	38.00	3.60	3.30
PA4338.223NLT	22	94.90	2.50	2.90
PA4338.333NLT	33	120	2.07	2.30
PA4338.473NLT	47	162	1.75	2.00
PA4338.104NLT	100	377	1.15	1.00
PA4338.334NLT	330	1155.7	0.68	0.64
PA4338.564NLT	560	2950	0.60	0.45

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 compoent in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effect) to the component.

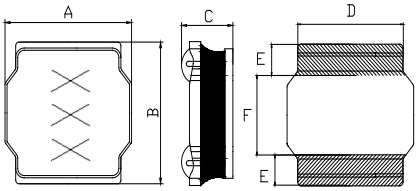
3. The Rated Current is the DC current required to raise the component temperature by 40 °C maximum. Take note that the component's performance varies depending on the system condition. It is suggested that the component be tested at the system level, to verify the temperature rise of the component during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

4. Please note that the inductance tolerance of all parts are ±20%, except .471NLT, .821NLT and .472NLT which are ±30%.

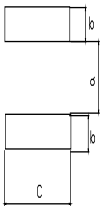
5. Parts shown in bold are standard catalog parts and are available through sample stock and distribution. Parts in lighter font are available but are not necessarily held in sample stock or distribution and lead times may be longer. Please contact Pulse for availablity.

Mechanical

PA4338.XXXNLT & PA4338.XXXCNLT



Final Layout

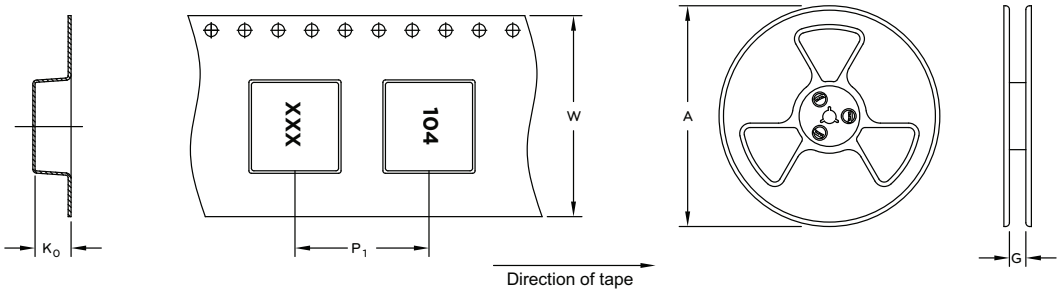


SUGGESTED PAD LAYOUT

Series	A	B	C	D	E	F	a	b	c
PA4338.XXXNLT	8.0±0.3	8.0±0.3	4.2 MAX	6.3±0.3	2.45±0.3	3.1±0.3	2.8 TYP	2.7 TYP	7.5 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
PA4338.XXXNLT	Ø330	16.5	12	16	4.4	1000

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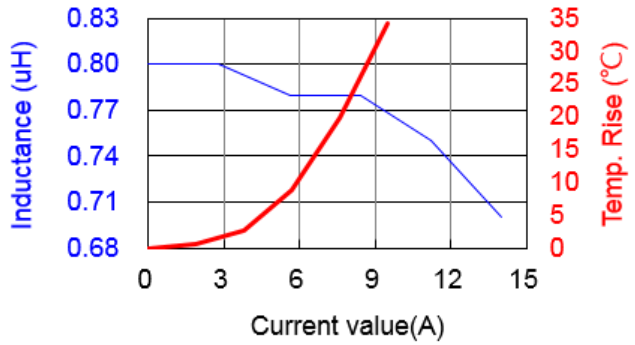
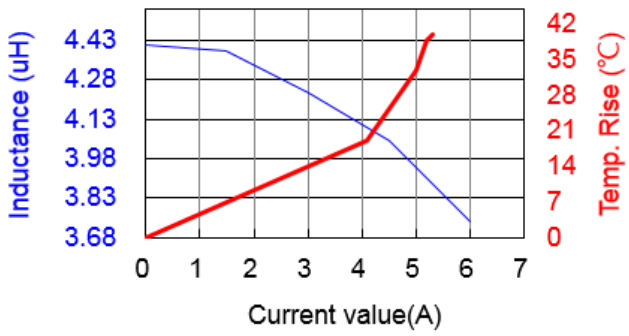
Typical Performance Curves

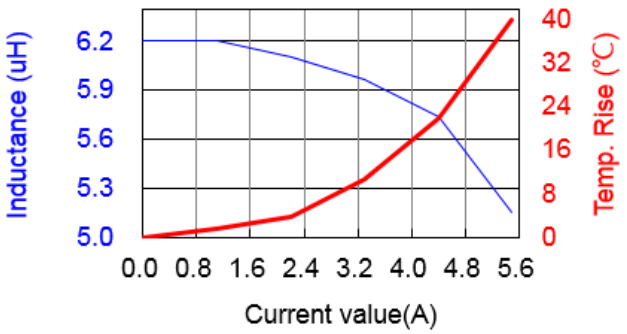
PA4338.821NLT



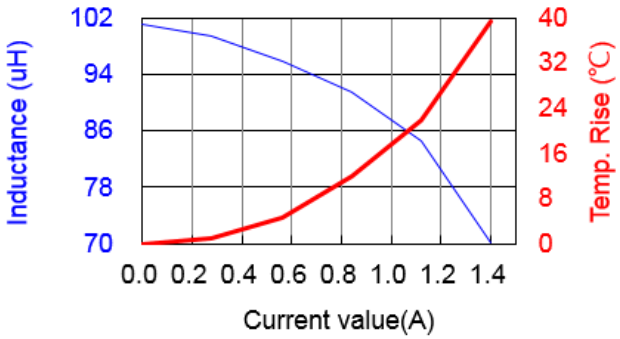
PA4338.472NLT



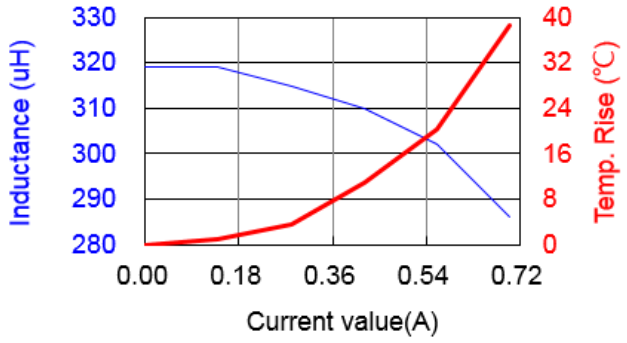
PA4338.682NLT



PA4338.104NLT



PA4338.334NLT



For More Information

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