SMT Power Inductor

Shielded Drum Core - PA4331.XXXNLT Series





📭 Height: 1.2mm Max

Footprint: 3.2mm x 3.2mm Max

Current Rating: up to 4.2A

■ Inductance Range: 0.33uH to 10uH

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										
	Inductance	Rated	Min. Self-Resonant	_	C tance	Saturation Current	Heating Current			
Part	1MHz, 1V	Current	Frequency	MAX.	MAX. TYP.		Δ T $pprox$ 40°C			
Number	uH ±20%	A	MHz	mΩ	mΩ	A	A			
PA4331.331NLT	0.33	4.20	107	27	23	7.20	4.20			
PA4331.471NLT	0.47	3.90	86	33	28	6.80	3.90			
PA4331.681NLT	0.68	3.40	63	42	35	5.80	3.40			
PA4331.102NLT	1.0	2.70	51	54	45	4.20	2.70			
PA4331.152NLT	1.5	2.50	37	74	64	3.40	2.50			
PA4331.222NLT	2.2	2.05	28	108	90	2.80	2.05			
PA4331.332NLT	3.3	1.70	25	155	129	2.20	1.70			
PA4331.472NLT	4.7	1.30	20	235	196	2.00	1.30			
PA4331.682NLT	6.8	1.10	16	340	290	1.60	1.10			
PA4331.103NLT	10	1.00	12	474	395	1.20	1.00			

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 (Δ T \approx 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

USA 858 674 8100 Germany 49 7032 7806 0 Singapore 65 6287 8998 Shanghai 86 21 62787060 China 86 755 33966678 Taiwan 886 3 4356768

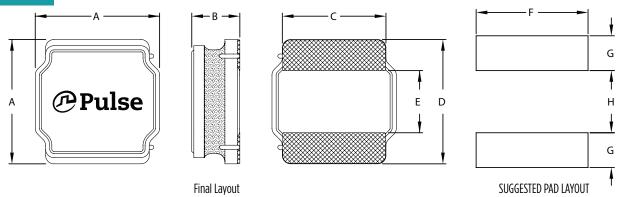
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Mechanical

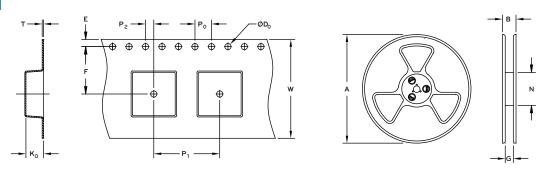
PA4331.XXXNLT



Series	A	В	C	D	E	F	G	Н
PA4331.XXXNLT	3.2 MAX	1.2 MAX	(2.6)	(3.0)	(1.5)	(3.2)	(0.8)	(1.5)

All Dimensions in mm.

TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST														
		REEL S	IZE (mm)			TAPE SIZE (mm)							QTY	
	A	В	G	N	E	F	D ₀	P ₁	Po	P ₂	W	T	K _o	PCS/REEL
PA4331.XXXNLT	Ø178	14.4	8.4	58	1.75	3.5	1.5	4	4	2	8	0.25	1.2	2000

For More Information

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