Excellent Integrated System Limited

Stocking Distributor

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Pulse Electronics Corporation PA1512.101NLT

For any questions, you can email us directly: sales@integrated-circuit.com

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SMT POWER INDUCTORS Power Beads - PA1512 Series





High frequency VRM10.0 applications

Current Rating: Over 50Apk

Inductance Range: 72nH to 150nH

Footprint: 7.0 x 7.0mm Max

Height: 4.96mm Max

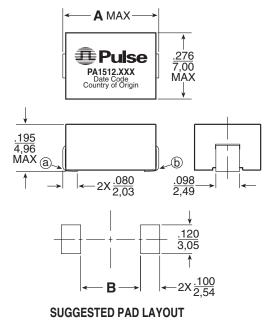
Frequency Range: up to 2MHz

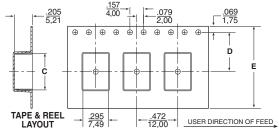
Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C								
Part Number	Inductance @Irated (nH ±20%)	Irated ⁴ (Adc)	DCR ^{1, 2} (mΩ ±6%)	Inductance ³ @ 0A bc (nH ±20%)	Saturation Current ⁵ (ADC)		Heating ⁶ Current	
					25°C	100°C	(A)	
PA1512 Series - 7.0mm x 7.0mm x 5.0mm								
PA1512.700T	72	31	0.27	72	50+	50+	31	
PA1512.101T	102	31	0.27	105	48	42	31	
PA1512.151T	134	28	0.27	150	32	28	31	

NOTES:

- 2. For manufacturing production test, a maximum DCR value of $0.5 \text{m}\Omega$ is used.
- The inductance has a tolerance of ±9%. This tolerance is guaranteed by design, but is not a manufacturing production test. For manufacturing production test, a tolerance of ±20% is used.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.
- 5. The saturation current is the current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C and 100°C). This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.
- 6. The heating current is the DC current which causes the part temperature to increase by approximately 40°C. This current is determined by soldering the component on a typical application PCB, and then applying the current to the device for 30 minutes without any forced air cooling.
- 7. In high volt*time applications, additional heating in the component can occur due to core losses in the inductor which may neccessitate derating the current in order to limit the temperature rise of the component. To determine the approximate total losses (or temperature rise) for a given application, the coreloss and temperature rise curves can be used.
- 8. Pulse complies with industry standard tape and reel specification EIA481.

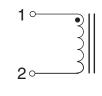
Mechanical Schematic





Dim.	inches/mm				
Α	.276/7,00				
В	.091/2,30				
С	.300/7,62				
D	.295/7,49				
Е	.630*/16,00**				

^{*±.012} inches



Weight 0.94 grams Tape & Reel1000/reel

 $\begin{array}{c} \textbf{Dimensions:} \ \frac{\textbf{Inches}}{\textbf{mm}} \end{array}$

Unless otherwise specified, all tolerances are $\pm .010 \over 0.25$

^{**±0,30} mm



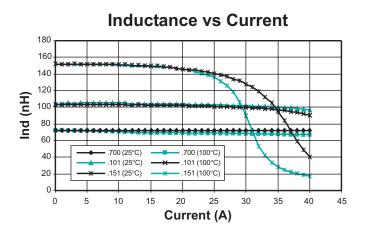
Distributor of Pulse Electronics Corporation: Excellent Integrated System Limited

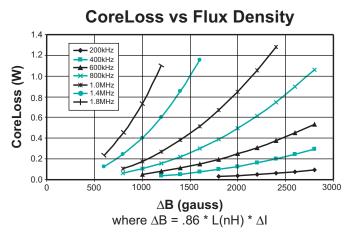
Datasheet of PA1512.101NLT - FIXED IND 105NH 31A 0.27 MOHM

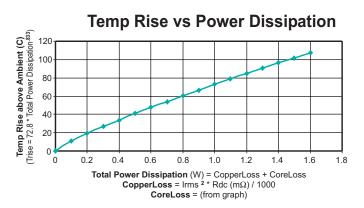
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SMT POWER INDUCTORSPower Beads - PA1512 Series









For More Information:

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