N9HP1

Product Specification For Inductive Differential Mode Nanotech® Cores



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Mechanical Specification

Bare Core Dimensions:

0.63 x 0.43 x 0.20 inch (16 x 11 x 5 mm)

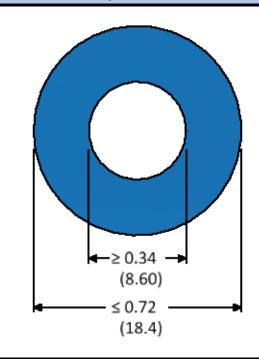
le: 4.14 cm **Ae:** 0.10 cm²

Weight: 0.009 lbs (4.0 grams)

Packing: 110 pc/layer, 9 layers/box **Box Quantity:** 990 pieces

Core Material: Nanocrystalline Curie Temp: 1,112°F (600°C) RTI Temp (0.81): 248°F (120°C)

Marking: N9HP1





Dimensions = inches (mm)

Electrical Core Performance

Permeability @ frequency = 10 KHz and Hpeak = 3.4 mA/cm			~90,000	
	Measured Value	Measurement Limits	Frequency	I _{eff} * N (mA*turn)
Inspection Value	$A_L (\mu H/N^2)$	18.4 - 36.8	10 KHz	10
value	$A_L (\mu H/N^2)$	4.6 min	100 KHz	10

*Saturation Current (Isat) of nanocrystalline material: Peak value of the exiting current when the initial inductance level is dropped to 10 per cent. Saturation behaviour is dependant on frequency, signal shape and leakage field. The current value is a calculated value for design help only and cannot be guaranteed. Isat is calculated @ B = 1.0 T - μnom - N = 1.

Core Finishing

	Type:	Plastic Case	Case Material Alternatives:	Zytel FR70G25	Rynite FR530	Longlite 4130	PA66-R11G25
	Voltage Breakdown:	2,500 VRMS	Case UL file Number:	E41938	E41938	E59481	E484599

Certification

MH&W International certifies that the manufacturing and the quality process meet all requirements of IEC Part 1: General Specification for "Fixed Inductors For Electromagnetic Interference Suppression", IEC 60938-1:1999 + A1:2006. This International Standard is used in lieu of requirements/documents pertaining to UL, CE, CSA, DIN and other individual agencies. The flame insulation rating meets UL-94V-0.

MH&W International certifies the product described herein is in compliance with the Directive 2011/65/EU of the European Parliament and of the council of 8 June, 2011 on the Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS2 Directive).

	Rev#	Date	Description	Drawing Approval		Drawing Number	
I	2	08/17/17	Initial Issue	Engineering:	D. Rollins	N9HP1 R3	
L	3	04/06/21	Updated to new datasheet format.	Sales:	B. Wilson		