NaLA® N57HP1Ø3-428

Product Specification For Inductive Differential Mode Choke Components

MH&W International Corp.
CoolBLUE®
Inductive Absorbers

MH&W International Corp.

575 Corporate Drive Mahwah, NJ 07430 USA

Phone 201-252-8125 Email: coolblue@mhw-intl.com

Mechanical Specification

Part Number:
N57HP1Ø3-428

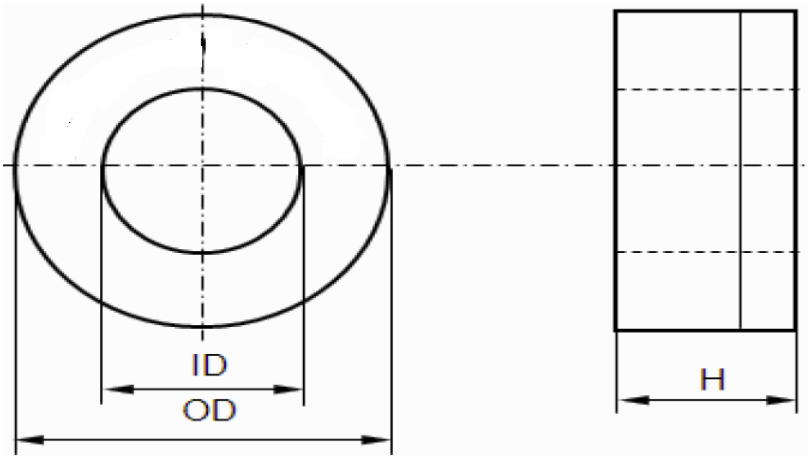
Nominal Core Dimensions:
3.15 x 2.48 x 1.18 inch
(80 63 x 30 mm)

Finished Core Dimensions:
OD ≤ 3.35 inch (85.0 mm)
ID ≥ 2.24 inch (57.0 mm)
H ≤ 1.40 inch (35.5 mm)

ℓ_ε = 22.36 cm A_ε = 1.86 cm²

Currie Temp = 1,112°F (600 °C)
RTI Temp (0.81) = 248°F (120°C)

Core Material: Nanoperm®
Marking: N57HP1Ø3-428



Notes:
Packing: 6 pc per layer, 2 layers/box; Box Quantity = 12 pcs

Electrical Core Performance

Permeability @ frequency = 10 KHz and Hpeak = 3.16 mA/cm ~60,000

	Measured Value	Measurement Limits	Frequency	L_{eff} * N (mA*turn)
Inspection Value	A_ℓ (μH/N²)	45.8 - 94.5	10 KHz	50
	A_ℓ (μH/N²)	15.5 min	100 KHz	50

Core Finishing

Type:	BLUE Case	Case material:	Zytel FR70G25 V0 NNC10 with RAL 5012 Blue Pigment
Case UL file Number:	E41938	Voltage Breakdown:	2,500 volts rms between two copper wires on the core

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).

Revision #	DATE	Alteration	Drawing Approval	
1	8/17/2017	INITIAL ISSUE	Engineering:	K. Giles
			Sales:	B. Wilson
			Drawing Number: N57HP1Ø3-428	