

NaLA[®] N29HP41-1Ø2

Product Specification For Inductive Differential Mode Choke Components



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Mechanical Specification

Part Number:

N29HP41-1Ø2

Nominal Core Dimensions:

1.57 X 1.26 X 0.59 inch
(40 x 32 x 15 mm)

Finished Core Dimensions:

OD ≤ 1.70 inch (43.1 mm)
ID ≥ 1.13 inch (28.8 mm)
H ≤ 0.69 inch (17.4 mm)

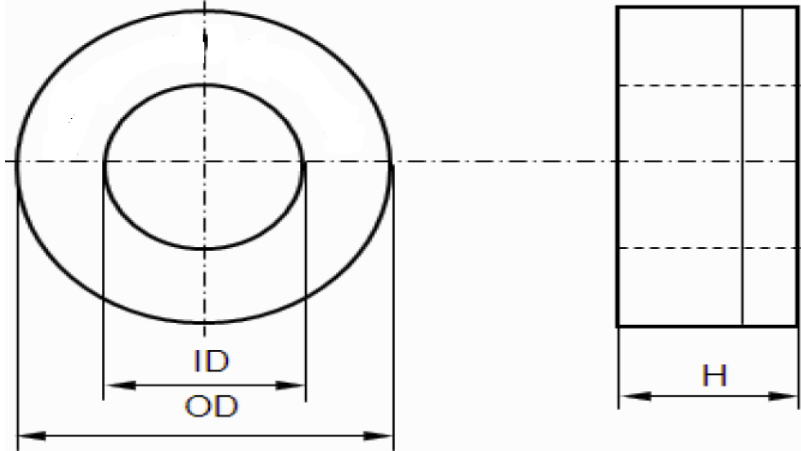
$$\ell_E = 11.26 \text{ cm} \quad A_E = 0.47 \text{ cm}^2$$

Currie Temp = 1,112°F (600°C)

RTI Temp (0.81) = 248°F (120°C)

Core Material: Nanoperm[®]

Marking: N29HP41-1Ø2



Notes:

Packing: 24 pc per layer, 5 layers/box; Box Quantity = 120 pcs

Electrical Core Performance

Permeability @ frequency = 10 KHz and H_{peak} = 3.14 mA/cm ~90,000

| Inspection Value | Measured Value | Measurement Limits | Frequency | L _{eff} * N (mA*turn) |
|------------------|-------------------------------------|--------------------|-----------|--------------------------------|
| | A _ε (μH/N ²) | 33.0 - 66.0 | 10 KHz | 25 |
| | A _ε (μH/N ²) | 8.4 - 15.6 | 100 KHz | 25 |

Core Finishing

| | | | |
|----------------------|------------|--------------------|--|
| Type: | BROWN Case | Case material: | PA66-GF25 FR Ultramid BASF Corp A3X2G5 - Brown |
| 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 | |
|-----------------------------|-----------|---------------|------------------|-----------|
| 4 | 8/17/2017 | INITIAL ISSUE | Engineering: | K. Giles |
| | | | Sales: | B. Wilson |
| Drawing Number: N29HP41-1Ø2 | | | | |