

M-102 NaLA®

Product Specification For Inductive Common Mode Choke Components

PS Index	03	Magnetec A/N	12205	Revision #	DATE	Alteration
PS Revision	04	Type:		01/00	2003/09/05	initial issue
				02/01	2005/10/05	Case MT-066.02, PU 210 pieces
Core Material: Nanoperm®				03/02	2006/10/09	New Case MT-056-03
				03/03	2008/08/07	OD ≤ 32.9: ID ≥ 17.7
				03/04	2014/11/07	100 KHz lower limit defined

Mechanical Specification

Part Number: M-102

Nominal Core Dimensions:

1.18 x .079 x 0.39 inch
(30 x 20 x 10 mm)

Finished Core Dimensions:

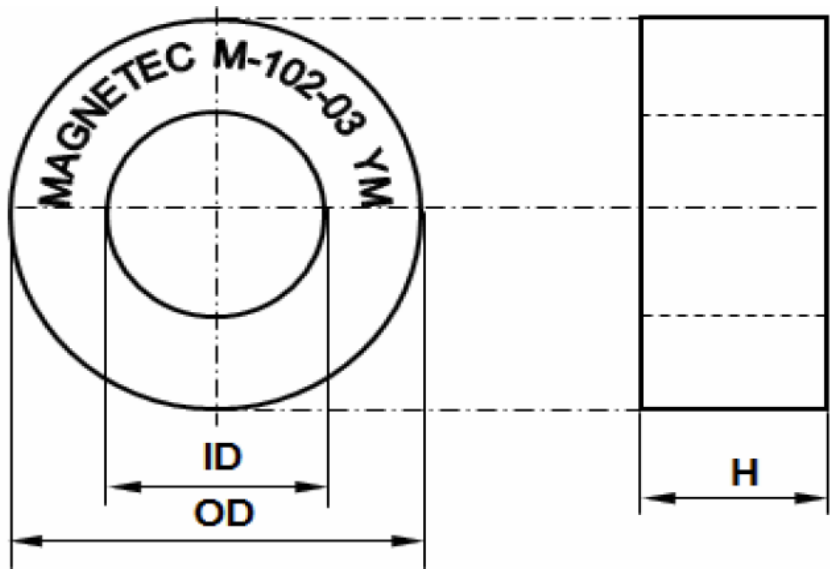
OD ≤ 1.30 inch (32.9 mm)
ID ≥ 0.70 inch (17.7 mm)
H ≤ 0.50 inch (12.6 mm)

$$\ell_{\xi} = 7.75 \text{ cm}$$

$$A_{\xi} = 0.38 \text{ cm}^2$$

Currie Temp = 1,112°F (600 °C)

RTI Temp (0.81) = 248°F (120°C)



Marking: M-102-03 YM: "-03" = Index; "YM" = Year/Month

Packing: 35 pc per layer, 6 layers/box; PU=210 pcs

Electrical Core Performance

Permeability @ frequency = 10 KHz and H = 3.65 mA/cm ~90,000

Inspection Value	Measured Value	Measurement Limits	Frequency	$L_{\text{eff}} * N$ (mA*turn)
	A_{ℓ} ($\mu\text{H}/\text{N}^2$)	40 - 80	10 KHz	20
	A_{ℓ} ($\mu\text{H}/\text{N}^2$)	10.0 min	100 KHz	20

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

Magnetec GmbH certifies their manufacturing and quality processes meets 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.

Magnetec GmbH 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)

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