

M-053 NaLA®

Product Specification For Inductive Common Mode Choke Components

PS Index	06	Magnetec A/N	12087	Revision #	DATE	Alteration
PS Revision	04	Type:		04/00	2001/03/15	Initial issue
				05/01	2006/07/27	AI = 22.5 - 45.0 $\mu\text{H}/\text{N}^2$
Core Material: Nanoperm®				06/02	2006/09/28	AI = 22.5 - 41.3 $\mu\text{H}/\text{N}^2$
				06/03	2014/11/07	100KHz lower limit defined
				06/04	2015/03/20	added separator held to drawing

Mechanical Specification

Part Number: M-053

Nominal Core Dimensions:

0.98 x 0.79 x 0.39

(25 x 20 x 10mm)

Finished Core Dimensions:

OD $\leq$ 1.09 inch (27.6 mm)

ID $\geq$ 0.70 inch (17.8 mm)

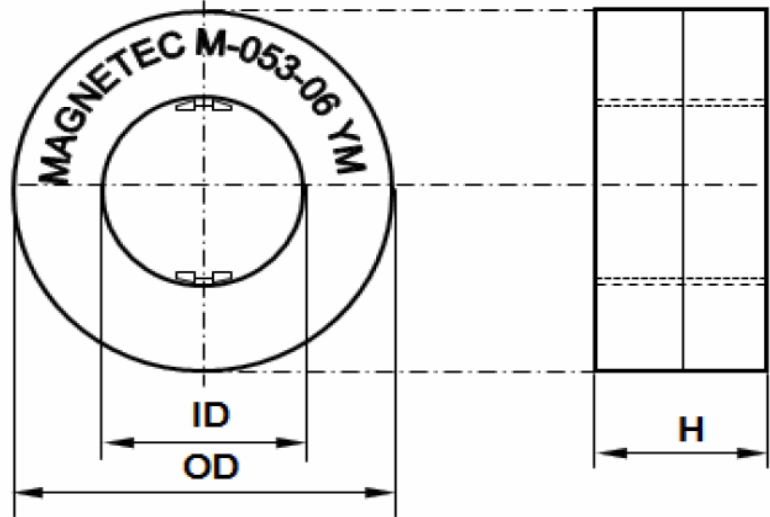
H $\leq$ 0.49 inch (12.5 mm)

$\ell_E = 7.1 \text{ cm}$

$A_E = 0.20 \text{ cm}^2$

Currie Temp = 1,112°F (600 °C)

RTI Temp (0.81) = 248°F (120°C)



Marking: M-053-06 YM: "-06" = Index; "YM" = Year/Month

Packing: 63 pc per layer, 6 layers/box; PU=378 pcs

Electrical Core Performance

Permeability @ frequency = 10 KHz and H = 3.0 mA/cm ~90,000					
Inspection Value	Measured Value	Measurement Limits	Frequency	$L_{\text{eff}} * N \text{ (mA*turn)}$	
	$A_e \text{ (}\mu\text{H}/\text{N}^2\text{)}$	22.5 - 41.3	10 KHz	15	
	$A_e \text{ (}\mu\text{H}/\text{N}^2\text{)}$	5.6 min	100 KHz	15	

Core Finishing

Type:	BROWN Case	Case material:	PA66-GF25 FR Ultramid BASF Corp A3X2G5 - Brown
Case UL file Number:	E36632	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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