

M-381 NaLA®

Product Specification For Inductive Common Mode Choke Components

PS Index	04	Magnetec A/N	12349	Revision #	DATE	Alteration
PS Revision	05	Type:	E	01/01	2006/02/08	initial issue
				02/02	2006/03/21	Case version
Core Material: Nanoperm®				03/03	2006/05/17	Improved DC behavior
				04/04	2011/03/28	Case material, H ≤ 17.4, 100 KHz value defined
				03/04	2014/11/07	nominal Perm ~90K, 10KHz upper limit=66μH

Mechanical Specification

Part Number: M-381

Nominal Core Dimensions:

40 x 32 x 15

Finished Core Dimensions:

OD ≤ 43.1

ID ≥ 28.8

H ≤ 17.4

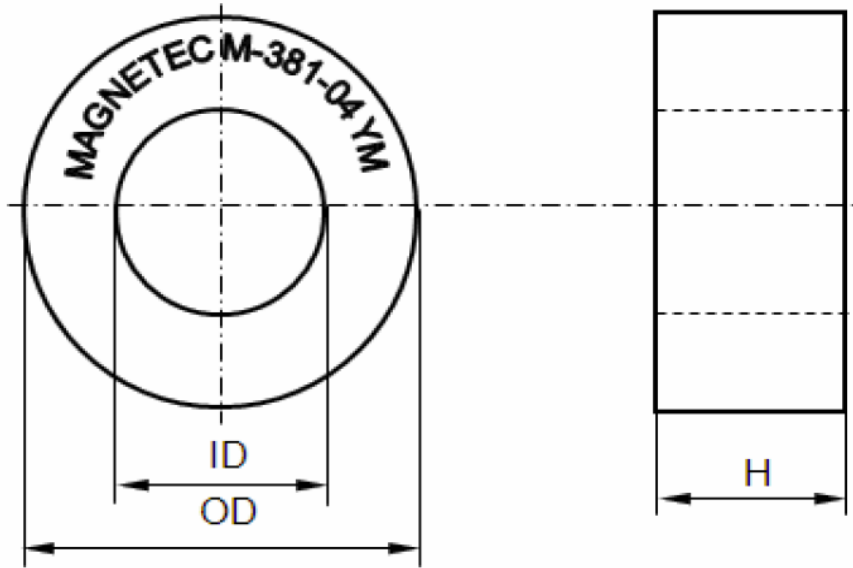
Dimensions in mm

$\ell_E = 11.26 \text{ cm}$

$A_E = 0.47 \text{ cm}^2$

Currie Temp = 1,112°F (600 °C)

RTI Temp (0.81) = 248°F (120°C)



Marking: M-381-04 YM: "-04" = Index; "YM" = Year/Month

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

Electrical Core Performance

Permeability @ frequency = 10 KHz and H = 3.14 mA/cm ~90,000

Inspection Value	Measured Value	Measurement Limits	Frequency	$L_{eff} * N \text{ (mA*turn)}$
	$A_e \text{ (}\mu\text{H/N}^2\text{)}$	33.0 - 66.0	10 KHz	25
	$A_e \text{ (}\mu\text{H/N}^2\text{)}$	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

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)

MH&W International Corp

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

MAGNETEC GmbH

Industriestrasse 7, D-63505 Langenselbold