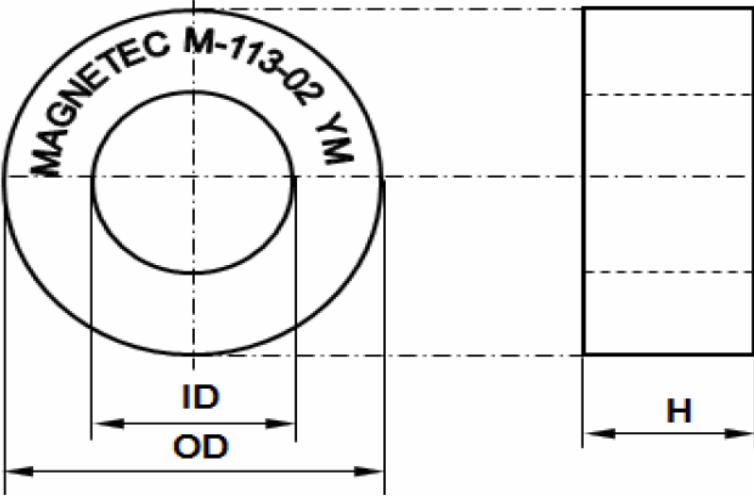


M-113 CoolBLUE®

Product Specification For Inductive Common Mode Choke Components

PS Index	02	Magnetec A/N	12141	Revision #	DATE	Alteration
PS Revision	03	Type:	E	02/01	2005/06/15	Product Specification
				02/02	2007/07/17	change packing unit
Core Material: Nanoperm®				02/03	2014/05/10	100KHz lower limit defined

Mechanical Specification

Part Number: M-113	
Nominal Core Dimensions: 3.15 x 2.48 x 1.18 inch (80 x 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)	
$\ell_E = 22.36 \text{ cm}$ $A_E = 1.86 \text{ cm}^2$	
Currie Temp = 1,112°F (600 °C) RTI Temp (0.81) = 248°F (120°C)	
Marking: M-113-02 YM: "-02" = Index; "YM" = Year/Month Packing: 6 pc per layer, 2 layers/box; PU12 pcs	

Electrical Core Performance

Permeability @ frequency = 10 KHz and H = 3.16 mA/cm					~30,000	Maximum Asymmetric Current I_{sat}^* (Sum Peak Current)
Inspection Value	Measured Value	Measurement Limits	Frequency	$L_{eff} * N$ (mA*turn)		
	A_e ($\mu\text{H}/\text{N}^2$)	24.1 - 48.2	10 KHz	50		
	A_e ($\mu\text{H}/\text{N}^2$)	12.0 min	100 KHz	50	6.0 A	

*Saturation Current I_{sat} of NANOPERM®: Peak value of the exiting current when the initial inductance level is dropped to 10 per cent. Saturation behaviour is dependant on frequency, signal shape and leakage field. The current value is a calculated value for design help only and cannot be guaranteed. I_{sat} is calculated @ $B = 1.0 \text{ T} - \mu_{nom} - N = 1$.

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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