## M-117 CoolBLUE®

# Product Specification For Inductive Common Mode Choke Components

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PS Index	04	Magnetec A/N	12143	Revision #	DATE	Alteration
PS Revision	03	Type:	E	04/01	2006/01/13	Product Specification
				04/02	2008/09/25	New Form, Aε Update
Core Materia	al: Nanope	rm®		04/03	2014/05/19	100KHz lower limit defined

## **Mechanical Specification**

#### Part Number: M-117

Nominal Core Dimensions:

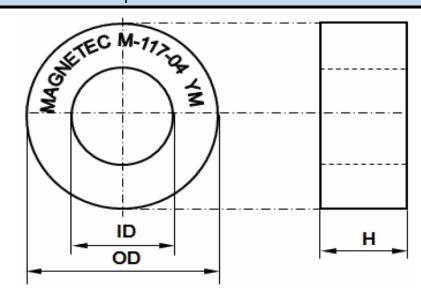
7.87 x 6.89 x 1.18 inch (200 x 175 x 30 mm)

Finished Core Dimensions:

 $OD \le 8.19 \text{ inch}$  (208.0 mm)  $ID \ge 6.54 \text{ inch}$  (166.0 mm)  $H \le 1.46 \text{ inch}$  (37.0 mm)

 $ext{le} = 58.82 \text{ cm}$   $ext{As} = 2.74 \text{ cm}^2$ 

Currie Temp = 1,112°F (600 °C) RTI Temp (0.81) = 248°F (120°C)



Marking: M-117-04 YM: "-04" = Index; "YM" = Year/Month

Packing: 1 pc per layer, 2 layers/box; PU=2 pcs

#### **Electrical Core Performance**

Permea	bility @ frequency = 10 KF	Iz and H = 3.13 mA/cm	~30,000		Maximum Asymmetric		
1	Measured Value	Measurement Limits	Frequency	L <sub>eff</sub> * N (mA*turn)	Current I <sub>sat</sub> *		
Inspection Value	$A_{\ell}$ (μΗ/ $N^2$ )	12.3 - 24.6	10 KHz	130	(Sum Peak Current)		
Value	$A_{\ell}$ (μΗ/ $N^2$ )	6.0 min	100 KHz	130	15.5 A		

\*Saturation Current Isat 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. Isat is calculated @ B = 1.0 T - µ<sub>nom</sub> - N = 1.

## Core Finishing

Type:	BLUE Case	Case material: Zytel FR70G25 V0 NNC10 with RAL 5012 Blue Pigment	Case material:
Case UL file Number:	E41938	Voltage Breakdown: 2,500 volts rms between two copper wires on the core	Voltage Breakdown:

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