

# HMR166HP-1631A8

Product Specification For Inductive Common Mode Choke Components



# MH&W International Corp.

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## **Mechanical Specification**

#### Part Number:

HMR166HP-1631A8

Nominal Core Dimensions:

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

Finished Core Dimensions:

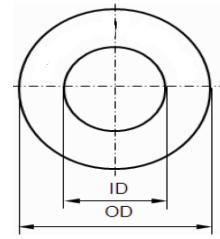
OD  $\leq$  8.19 inch (208.0 mm) ID  $\geq$  6.54 inch (166.0 mm) H  $\leq$  1.46 inch (37.0 mm)

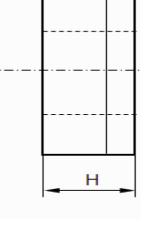
 $ext{le} = 58.52 \text{ cm}$  Ag = 2.74 cm<sup>2</sup>

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

Core Material: M Nanoperm

Marking: HMR166HP-1631A8





Notes:

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

### **Electrical Core Performance**

		Electrical core i	CITOIIII	<del>CC</del>		
Perm	eability @ frequency = 10 KHz and	Hpeak = 3.13mA/cm	Maximum Asymmetric			
	Measured Value	Measurement Limits	Frequency	L <sub>eff</sub> * N (mA*turn)	Current I <sub>sat</sub> *	
Inspection Value	$A_{\ell} (\mu H/N^2)$	24.9 - 49.8	10 KHz	130	(Sum Peak Current)	
value	$A_{\ell}$ (μH/N <sup>2</sup> )	8.5 min	100 KHz	130	7.8 A	

<sup>\*</sup>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 - µnom - N = 1.

#### Core Finishing

Туре:	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

#### Certification

MH&W International certifies that the manufacturing and the quality process meet 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. The flame insulation rating meets UL-94V-0.

MH&W International 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).

	Revision #	DATE	Alteration	Drawing Approval	
	1	12/12/2013	INITIAL ISSUE	Engineering:	K. Giles
				Sales:	B. Wilson
I				Drawing Number: HMR166HP-1631A8	