

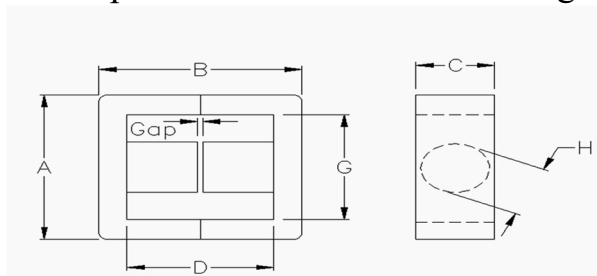


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Data Sheet

Part Number: EM102-52

Description: Iron Powder Round Leg E-Core



Dimensions:	Inches (millimeters)					
	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>H</u>	<u>G</u>
	1.000 (25.4)	1.000 (25.4)	0.500 (12.7)	0.800 (20.3)	0.350 (8.89)	0.800 (20.3)
Tol.	±0.010 (0.254)	±0.010 (0.254)	±0.005 (0.127)	±0.008 (0.203)	±0.005 (0.127)	±0.007 (0.178)

Magnetic Dimensions:

Magnetic Path Length:	6.28 cm
Cross Sectional Area:	.637 cm <sup>2</sup>
Volume:	4.00 cm <sup>3</sup>
Inductance Index:	84.8 nH/N <sup>2</sup> +/-10%

Basic Material Characteristics:

Material Type:	Micrometals Mix -52
Initial Permeability:	75 (reference)
Temperature Stability:	+650 ppm/C° typical
Color Code:	Green/Blue stripe

Electrical Test Specifications:

Test Winding:	18 turns, Special helical coil
Test Instrument:	HP4274A
Test Frequency:	100 kHz
Test Voltage:	0.1 volts
Inductance:	30.25µH / 24.25µH

Core Loss Characteristics:

58mW/cm<sup>3</sup> nominal at 140 gauss pk, F = 100 kHz

Note: Cores must be kept dry and handled with cotton gloves to slow down the formation of surface rust. The Thermal Aging Properties of Micrometals Mix -52 are unique to Micrometals alone and not our competitors. Micrometals Color Codes are protected by US Patent & Trade Mark Law. All other magnetic properties as described in Micrometals Power Conversion Catalog, Issue L, February 2007. Micrometals Iron Powder Cores comply with the EU directives 2002/95/EC and 2003/11/EC. Any possible unintentional RoHS trace elements present are less than 100 ppm.