

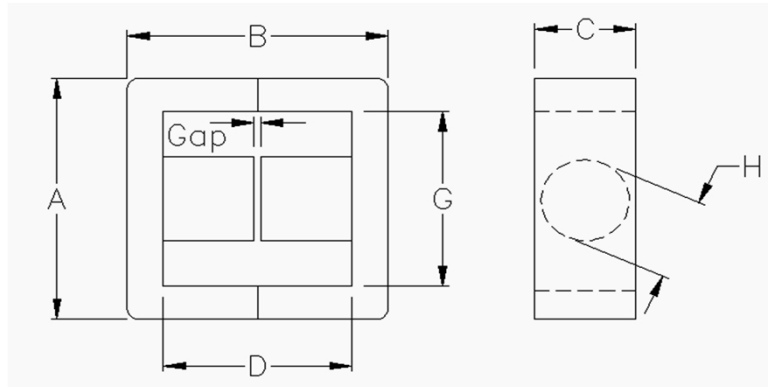


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Data Sheet

Part Number: EM126-52

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>
	1.250 (31.8)	1.250 (31.8)	0.570 (14.5)	0.916 (23.3)	0.438 (11.1)	1.010 (25.7)
Tol.	±0.015 (0.381)	±0.015 (0.381)	±0.007 (0.178)	±0.010 (0.254)	±0.005 (0.127)	±0.010 (0.254)

Magnetic Dimensions:

Magnetic Path Length:	7.46 cm
Cross Sectional Area:	0.960 cm <sup>2</sup>
Volume:	7.43 cm <sup>3</sup>
Inductance Index:	119 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 stripes

Electrical Test Specifications:

Test Winding:	27 turns, Special helical coil
Test Instrument:	HP4274A
Test Frequency:	100 kHz
Test Voltage:	0.1 volts
Inductance:	95.7µH / 78.3µH

Core Loss Characteristics:

58 mW/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.