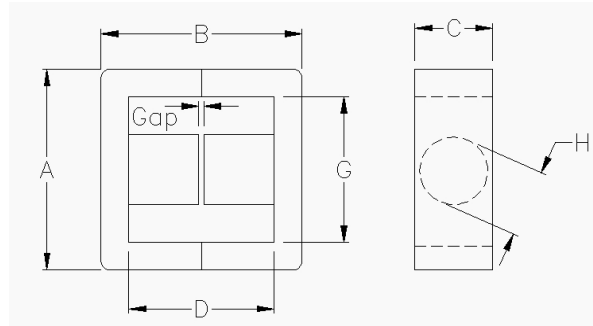




TEL (714) 970-9400
 USA (800) 356-5977
 FAX (714) 970-0400

Data Sheet
 Part Number: EM150-52
 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>
	1.500 (38.1)	1.500 (38.1)	0.750 (19.1)	1.200 (30.5)	0.536 (13.6)	1.190 (30.2)
Tol.	+/-0.015 (0.381)	+/-0.015 (0.381)	+/-0.010 (0.178)	+/-0.020 (0.254)	+/-0.015 (0.127)	+/-0.010 (0.254)
	Gap ~ 0.002 (0.051)					

Magnetic Dimensions:

Magnetic Path Length:	9.46 cm
Cross Sectional Area:	1.45 cm ²
Volume:	13.7 cm ³
Inductance Index:	127.4nH/N ² +/-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:	19 turns, Special helical coil
Test Instrument:	HP4274A
Test Frequency:	100 kHz
Test Voltage:	0.1 volts
Inductance:	50.6µH / 41.4µH

Core Loss Characteristics:

58mW/cm³ 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 laws. All other magnetic properties as described in Micrometals Power Conversion Catalog, Issue L, Feb'07. 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.