

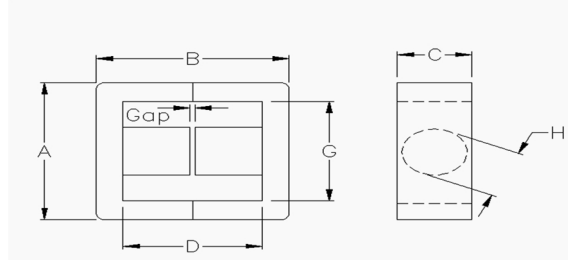


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Data Sheet

Part Number: EM221-52

Description: Iron Powder Round Leg E-Core



Dimensions:	Inches (millimeters)					
	A	B	C	D	H	G
	2.210 (56.1)	2.200 (55.9)	1.070 (27.2)	1.760 (44.7)	.850 (21.6)	1.760 (44.7)
Tol.	±0.015 (0.381)	±0.015 (0.381)	±0.010 (0.254)	±0.020 (0.508)	±0.015 (0.381)	±0.010 (0.254)

Magnetic Dimensions:

Magnetic Path Length:	13.7 cm
Cross Sectional Area:	3.22 cm ²
Volume:	44.0 cm ³
Inductance Index:	228.0 nH/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:	44 turns, Special helical coil
Test Instrument:	HP4274A
Test Frequency:	100 kHz
Test Voltage:	0.1 volts
Inductance:	489.5µH / 400.5µH

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 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.

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