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Data Sheet
Part Number: T10-10B
Description: Iron Powder Toroidal Core

Finished Dimensions: Inches (millimeters) – includes coating

Outside Diameter: 0.102 / 0.092 (2.59 / 2.34)
Inside Diameter: 0.049 / 0.039 (1.24 / 0.99)
Height: 0.055 / 0.045 (0.89 / 0.64)

Magnetic Dimensions:

Magnetic Path Length: 0.56 cm
Cross Sectional Area: 0.0045 cm²
Volume: 0.0025cm³

Basic Material Characteristics:

Material Type: Micrometals Mix -10
Initial Permeability: 6 (reference)
Temperature Stability: +150ppm/C° typical
Color Code: None
Finish: Parylene-C, 0.0005" nominal thickness

Inductance Index: 1.25 nH/N² ± 5%

Test Winding: 25 turns, AWG-40, single layer, tightly wound, ½" leads
Test Instrument: HP4277A
Test Frequency: 1 MHz
Test Voltage: High or 1 volt open
Inductance: 0.820µH / 0.742µH

Core Loss Characteristics: 18mW/cm³ nominal @ 140 gauss pk, f = 100 kHz

Note: The Thermal Aging Properties of Micrometals Mix –10 are unique to Micrometals alone and not our competitors. All other magnetic properties as described in Micrometals RF Catalog, Issue H, December 2005. 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.