



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

Data Sheet

Part Number: T30-6/55/+2.5

Description: Iron Powder RF Toroidal Core, Graded to +2.5% to +0%

Finished Dimensions: Inches (millimeters) – includes coating

Outside Diameter:	0.322 / 0.292 (8.18 / 7.41)
Inside Diameter:	0.166 / 0.136 (4.22 / 3.45)
Height:	0.148 / 0.108 (3.76 / 2.74)

Magnetic Dimensions:

Magnetic Path Length:	1.84 cm
Cross Sectional Area:	0.061 cm ²
Volume:	0.110 cm ³

Basic Material Characteristics:

Material Type:	Micrometals Mix -6
Initial Permeability:	8.5 (reference)
Temperature Stability:	+35 ppm/C° typical
Color Code:	Yellow / Clear
Finish:	Per UL Card file #E140098 (S)

Inductance Index: 3.6nH/N² +2.5% to +0% (Graded for Inductance)

Test Winding:	37 turns, AWG-30, tightly wound, evenly spaced
Test Instrument:	HP4277A
Test Frequency:	1.0MHz
Test Voltage:	1.0V open/High Signal Setting
Inductance:	5.05μH/ 4.93μH

Quality Factor:

Test Winding:	Same as above.
Test Instrument:	HP4342A
Q Test Frequency:	7.9MHz
Quality Factor:	165 minimum

Note: The Thermal Aging Properties of Micrometals Mix -6 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 RF Catalog, Issue H, May 2001. 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 10 ppm.