Tunable Bandpass Cavity Filters
MtronPTI Part#: UF9978

Using over 50 years of high performance RF filter design and manufacturing experience, MtronPTI can provide field tunable bandpass cavity filters that could be used to tune desired signals while rejecting interfering signals in Air Navigation Systems Receivers.

Features: High Q, Low Insertion Loss, Better Selectivity, Power Handling, Excellent out of band performance

Applications: TACAN/DME Air Navigation Systems, Instrumentation

General & Electrical Requirements:

1. Passband Frequency Range: 1025 to 1150MHz min
   Passband: Fc +/- 0.2MHz minimum
   Passband Variation: 0.25dB maximum
   Passband Return loss: 14dB maximum
   3dB Bandwidth: 4MHz maximum
   Insertion Loss @ tuned frequency: 2.0dB maximum, 1.5dB typical
   Stop-Band Attenuation:
      80dB minimum from 5MHz to Fc-63MHz
      80dB minimum from Fc+63MHz to 2800MHz
   Input Power: 50W average maximum
   Out of band signals (+/- 63MHz from Fc): 1000W peak (4uSec Pulse width, 5% duty maximum.)
   Tuning Method: Screw Tuning
   RF Impedance: 50 ohms
2. General Specifications:

Operating Temperature: -20°C to +60°C

Connector: SMA Female

Paint: Black with Mil-DTL 64159 Type 2 Waterborne Polyurethane
II. Test Data

![Graph showing test data for Tunable Bandpass Cavity Filters with MtronPTI Part#: UF9978.](image)
Data Sheet Revision Table

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