



Specification for a Bandpass Cavity Filter MtronPTI P/N UF9282R

I. General & Electrical Requirements (0°C to +70°C):

1. Center Frequency (F_c): 5.1GHz
2. 1dB Bandwidth (relative to measured Insertion Loss): 5.025GHz to 5.175GHz minimum
3. Insertion Loss @ 5.1GHz: ≤ 2.0 dB
4. Return Loss (from 5.025GHz to 5.175GHz): ≥ 15 dB
5. VSWR (from 5.046GHz to 5.154GHz): $\leq 1.432:1$
6. Rejection:
 - ≥ 95 dB: @ 4.570GHz
 - ≥ 27 dB: @ 4.763GHz
 - ≥ 17 dB: @ 4.985GHz
 - ≥ 80 dB: From 6.000GHz to 10.500GHz
 - ≥ 60 dB: from 10.500GHz to 13.000GHz
7. Input Power Level: $\leq +30$ dBm
8. Z_{IN}/Z_{OUT} : 50 Ω nominal

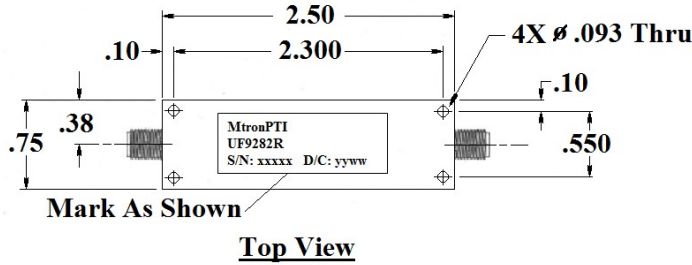
II. Environmental & Physical Requirements:

1. Temperature:
 - Operating: -40°C to +70°C
 - Storage: -65°C to +85°C
2. Humidity:
 - Operating: 0% to 95% wet bulb +40°C, no condensation
 - Storage: 95% Relative Humidity @ +40°C for 5-days, no condensation
3. Altitude (operating): 0 to 3048 meters
4. Shock (operating): 20Gs, $\frac{1}{2}$ sine, 11msec shock pulse
5. Vibration (operating): 10Hz to 2KHz, 10Gs

III. Package, Packaging & Marking Requirements:

1. Size: Per Figure 1
2. RoHS Compliant: Built with Pb-Free Process, & other environmental requirements per 5951-1745-2 apply
3. Connectors:
 - SMA-Female shall meet the interface requirements of MIL-C-39012
 - Mating Connector Torque, 80 to 117 N.cm (12-12 in/lb.)
 - Maximum Torque, 170 N.cm (15 in/lb.)
4. Packaging for Shipment:
 - Provide protection for the device using normal transportation
 - Packing material shall be free of electrostatic charges
 - Packing material shall not contain ozone-depleting substances
5. Marking Permanence: The marking shall withstand nominal cleaning

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All Dimensions are in Inches
Drawing Not to Scale

Tolerances, Unless Otherwise Specified

XX: \pm .030
 XXX: \pm .010

Marking Conventions:

S/N: 5 Digit Serial Number
 D/C: Date Code, yy = Year & ww = Production Week

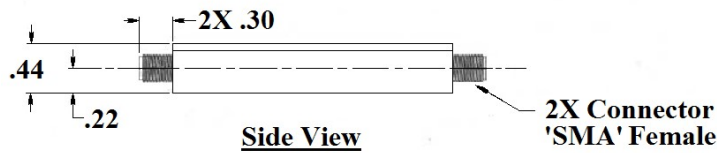


Figure 1: Package Dimensions & Marking

IV. Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
01/29/13	1	BRM	Corrected a typographical error in the 1dB Bandwidth frequency range.
5/2/10	0	BRM	Original Release.