

2525 Shader Road, Orlando Florida 32804 USA Phone: 407-298-2000 Fax: 407-293-2979 Wesite: mtronpti.com NYSE MKT: LGL

# MtronPTI Low Profile X and Ku Band Cavity Filters

Using over 50 years of high performance RF filter design and manufacturing experience – incorporating RF CAD design and synthesis, MtronPTI can provide X and Ku Band low profile cavity filters that not only reduce the overall mechanical footprint, but also offer improved electrical performance.



Features: Low Profile, Laser Sealed, Extended Temperatures, Better Isolation/RF Shielding

Applications: Space, Satcom, Electronic Warfare, Avionics,

### I. General & Electrical Requirements:

Center Frequency: 9.6GHz

Insertion Loss (IL): < 5dB

Return Loss : < 12dB

Attenuation:

DC to 9.5GHz: 40dB min.

9.7GHz to 20GHz: 40dB min.

 $Z_{IN}/Z_{OUT}$ : 50 $\Omega$  nominal

Maximum CW power: 2 watts

## II. Environmental & Physical Requirements:

1. Temperature Range:

Operating: -35°C to +100°C

Storage: -35°C to +105°C



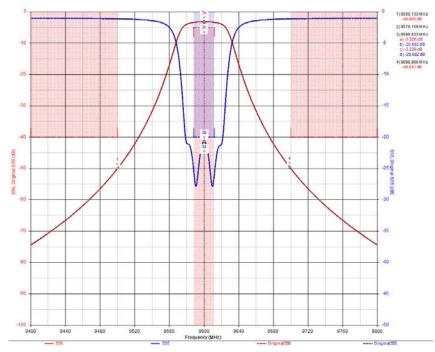
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#### PLATING REMOVED FROM LASER WELDED SEAM 1.586 4X TAP 2-56 ▼ .125 1.39 Ø.018 PIN LASERMARKING SURFACE UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS ANGULAR Ś 8 DIC: YY œ DO NOT SCALE DRAWING Q $\odot$ 1.00 CENT 4X Ø .096 THRU ✓ Ø .175 X 100° 2X Ø.016 VENT HOLES 1 52 ī +.005 4PL.155 -.004

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Housing and cover material are 304 stainless steel that are silver plated.

## **III. Representative Performance:**



### **IV. Datasheet Revision Table:**

Date	Rev.	Orig.	Details of Revision
12-12-18	А	DPD	Original Draft

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