

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}: 50Ω nominal

Maximum CW power: 2 watts

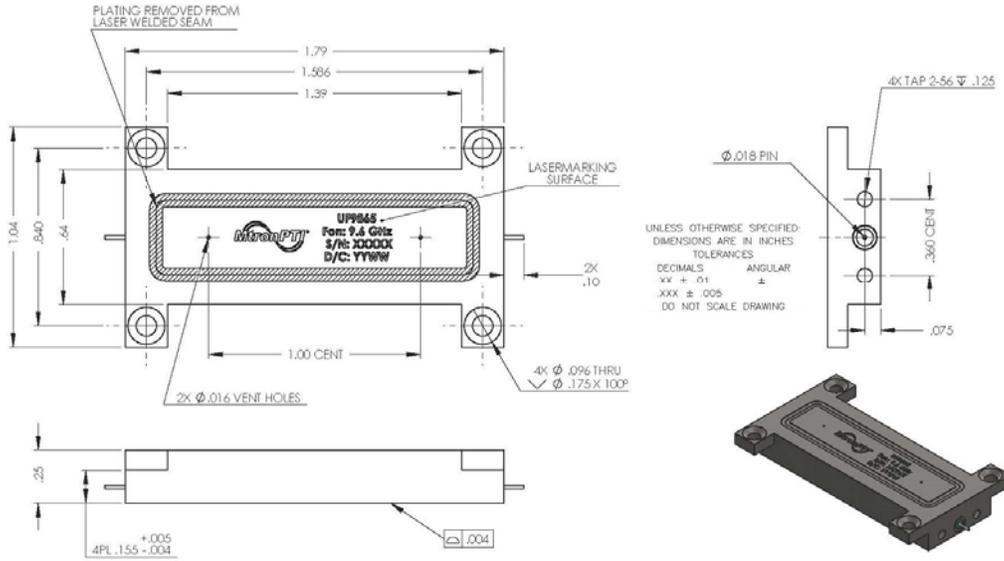
II. Environmental & Physical Requirements:

1. Temperature Range:

Operating: -35°C to +100°C

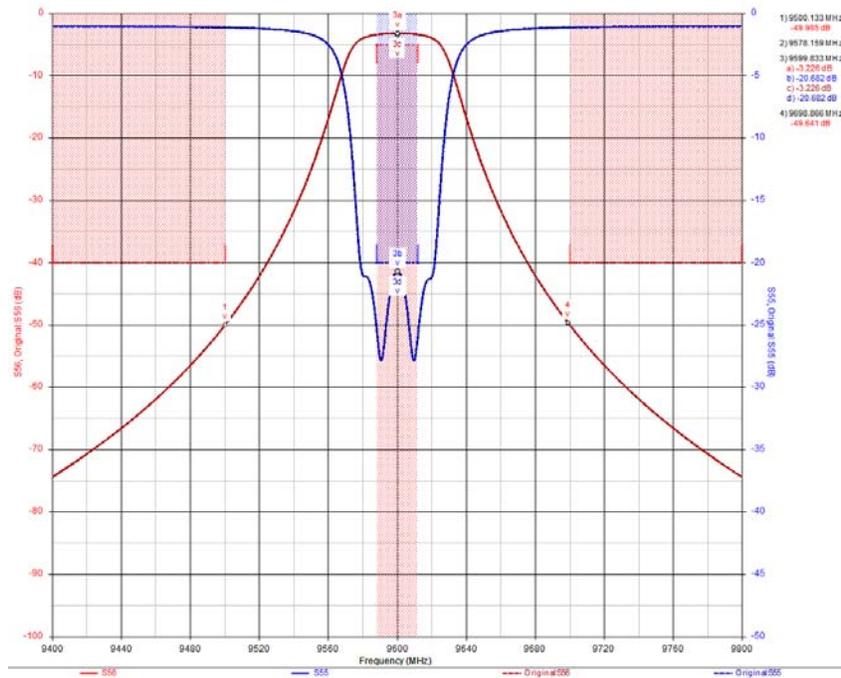
Storage: -35°C to +105°C

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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	A	DPD	Original Draft