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Specification for a Space Qualified Crystal Filter
MtronPTI P/N: XF9441-001 (Engineering Model)
MtronPTI P/N: XF9441-002 (Flight Model)

I. General & Electrical Requirements

1. Center Frequency (F_{ON}): 70MHz
2. Center Frequency Tolerance:
   @ +25˚C: F_{ON} ±1.5kHz maximum
   @ -15˚C and +60˚C: F_{ON} ±3.5kHz maximum
3. Bandwidth:
   @ 1dB: F_{ON} ±40kHz minimum
   @ 3dB: F_{ON} ±52kHz minimum
4. Insertion Loss (at the peak of transmission): 5.0dB maximum
5. Ripple (peak-valley, over 70% of the 3dB Bandwidth): 1.0dB maximum
6. Stopband Attenuation (minimum relative to Insertion Loss):
   40dB: F_{ON} ±125kHz maximum
   70dB: F_{ON} ±500kHz maximum
7. Spurious Response: 45dBc minimum
8. Nominal Input Level: 0dBm
9. Weight: 25-grams maximum
10. Z_{IN}/Z_{OUT}: 50Ω

Note 1: All electrical performance specifications are to be met over the -10℃ to +60℃ Operating Temperature Range.

II. Environmental, Test & Physical Requirements:

1. Temperature Range
   Operating: -15°C to +60°C
   Storage: -40°C to +85°C
2. Package:
   Size: Reference Figure 1
   Mating Hardware: Reference Figure 2

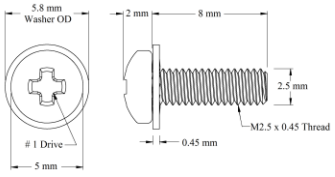


Figure 2: Mating Hardware

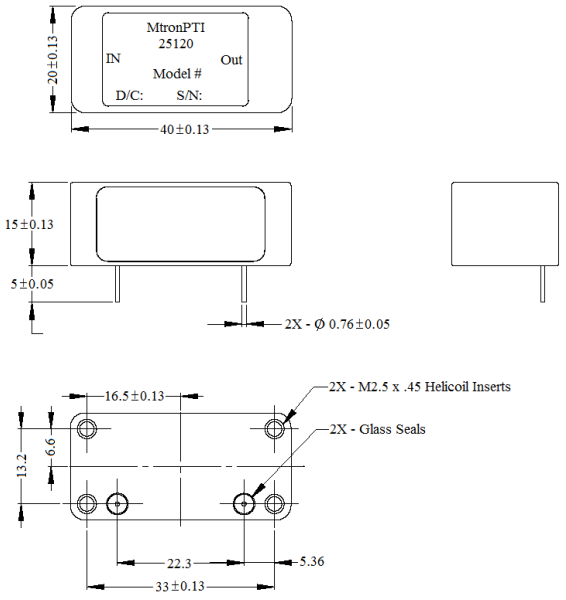


Figure 1: Package Outline Drawing

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
04/18/13	0	BRM	Original Release.

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