

2525 Shader Road Orlando Florida 32804 USA Phone: 407-298-2000 Fax: 407-293-2979 Website: www.mtronpti.com AMEX: LGL

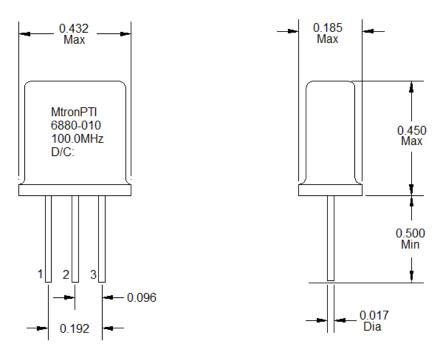
Specification for a 2-Pole Spectrum Cleanup Crystal Filter MtronPTI P/N: 6880-010

- I. General & Electrical Requirements
 - 1. Center Frequency (F_{ON}): 100.0MHz
 - 2. 3dB Passband: $\leq F_{ON} \pm 7.5 \text{kHz}$
 - 3. Insertion Loss (@ peak of transmission within the 3dB passband): $\leq 6dB$
 - 4. Passband Ripple (peak-valley): ≤ 1.0 dB
 - 5. Rejection (Minimum, Relative to Insertion Loss) 15dB: $\leq F_{ON} \pm 37.5 kHz$
 - 6. Ultimate Attenuation: 25dB minimum
 - 7. Spurious Response: -15dB minimum @ F_{ON} +35kHz to F_{ON} +500kHz
 - 8. Input Signal Level: $\leq +5$ dBm
 - 9. Z_{IN}/Z_{OUT} : 1450 Ω // -1*pF* ±2*pF* (Reference Figure 2 for Suggested 50 Ω Matching Circuit)

II. Environmental & Physical Requirements:

- 1. Temperature Range Operating: 0°C to +75°C Storage: -45°C to +90°C
- 2. Solderability: Per EIAJ-STD-002
- 3. Package: Reference Drawing Figure 1

All Dimensions are in Inches



Pin # 2 is Case Ground

Figure 1 – 6880-010 Package Outline Drawing

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Page 1 of 2

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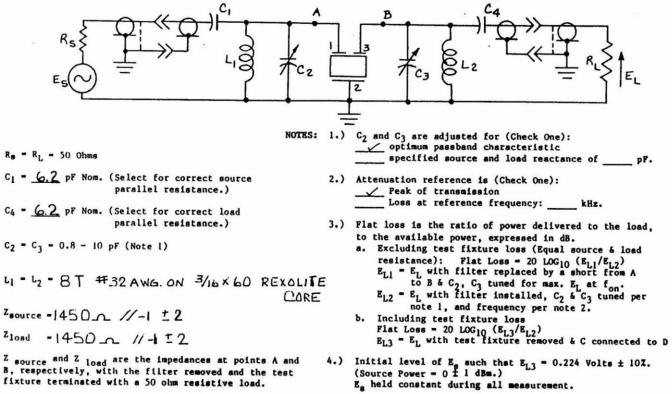


Figure 2 – 6880-010 Suggested 50Ω Matching Circuit