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

Specification for a Monolithic SMD Crystal Filter
MtronPTI P/N: XF9430R

I. General & Electrical Requirements:

1. Center Frequency (F_{ON}): 75.75MHz
2. Passband:
   @ 1dB: ≥ F_{ON} ±7.5kHz
   @ 3dB: ≥ F_{ON} ±10.0kHz
3. Insertion Loss (@ peak of transmission within the 3dB passband): ≤ 4.0dB
4. Passband Ripple (peak-valley): ≤ 1.0dB
5. Stopband Attenuation
   > 45dB: F_{ON} ±40.0kHz (absolute)
   > 70dB: F_{ON} ±910.0kHz
6. Group Delay Variation (within F_{ON} ±7.5kHz): 15*µsec*
7. Input 3rd Order Intercept Point: > +30dBm
   Input Frequency: F_{ON} ±50kHz and F_{ON} ±100kHz
   Input Signal Level: -10dBm to -20dBm
8. Input Signal:
   Operating (full specification compliance): -5dBm nominal
   Peak (No Damage): +15dBm
9. Input/Output Terminating Impedance (Z_{IN}/Z_{OUT}): 50Ω nominal

Note 1: All electrical performance specifications are valid over the full Operating Temperature Range (-30˚C to +75˚C) unless otherwise noted.
Note 2: All electrical performance specifications are to be validated and adjusted at the prototype build stage.

II. Environmental, Physical & Reflow Requirements:

1. Temperature Range
   Operating: -30°C to +75°C
   Storage: -40°C to +85°C
2. Solderability: Per EIAJ-STD-002
3. Package: SMD (ref Figure 1)
4. RoHS Compliant

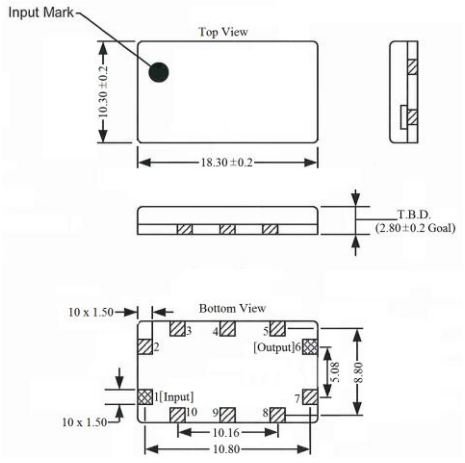

Figure 1 – Filter Package Outline Drawing

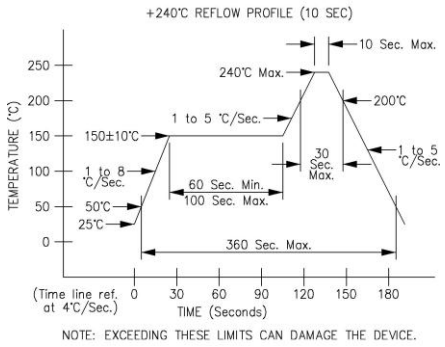

Figure 2 – Recommended Reflow Profile