

Specification for a Connectorized Crystal Filter MtronPTI P/N: XF9370

I. General & Electrical Requirements

1. Center Frequency (F_{ON}): 73.0MHz
2. 1dB Bandwidth: $\geq \pm 80.0$ kHz
3. Insertion Loss (@ peak of transmission within the 1dB bandwidth): ≤ 3.0 dB
4. Passband Ripple (peak-valley): ≤ 1 dB
5. Input/Output VSWR: $\leq 1.4:1$
6. Group Delay
 - Absolute Delay: $2.74\mu sec \pm 0.25\mu sec$
 - Delay Variation (any 5kHz increment within $F_{ON} \pm 35$ kHz): $\leq 0.75\eta sec$
7. Rejection:
 - ≥ 25 dBc: 59.5MHz to 72.6MHz
 - ≥ 25 dBc: 73.57MHz to 74.63MHz
8. Input Signal Level: ≤ 0 dBm
9. Z_S/Z_L : 50Ω nominal

II. Environmental & Physical Requirements:

1. Temperature Range
 - Operating: $-40^\circ C$ to $+85^\circ C$
 - Storage: $-45^\circ C$ to $+90^\circ C$
2. Package: Connectorized (ref drawing Figure 1)

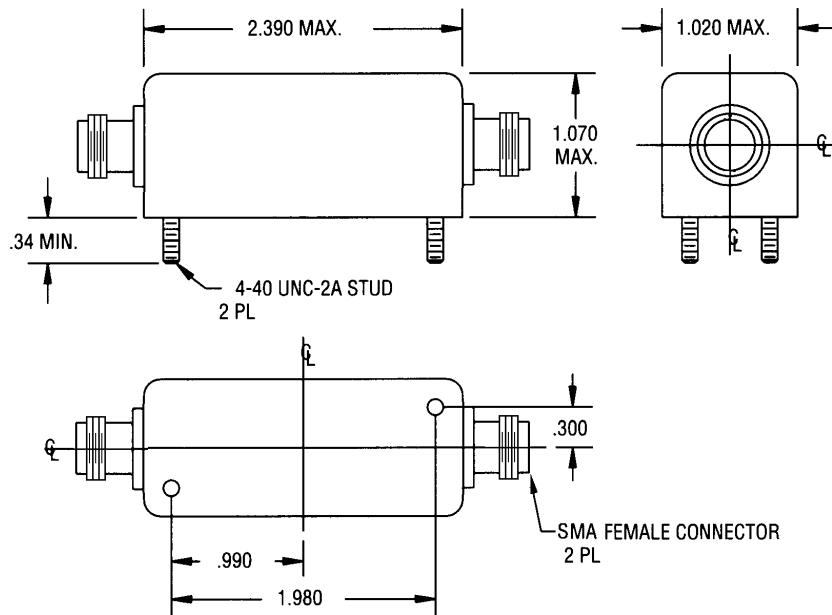


Figure 1 – Filter Package Outline Drawing

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III. Design Simulation Plots:

