

Specification for an Highpass LC Filter MtronPTI P/N: LF9412

I. General & Electrical Requirements

1. Corner Frequency (F_{ON}): 1215MHz
2. Passband: 1215MHz to 1400MHz
3. Passband Insertion Loss: ≤ 0.7 dB
4. Passband VSWR: $\leq 1.4:1$
5. Passband Phase Linearity: $\leq \pm 9^\circ$
6. Rejection (Minimum, Relative to Insertion Loss)
 35dB: 960MHz to 1100MHz
7. Signal Level: ≤ -16 dBm CW, $\leq +51$ dBm 2msec pulsed 40% duty cycle
8. Z_S/Z_L : 50 Ω nominal

Note: The filter shall meet all performance requirements over the full operating temperature range (-40°C to +85°C)

II. Environmental & Physical Requirements:

1. Temperature Range
 Operating: -40°C to +85°C
 Non-Operating: -55°C to +125°C
2. Altitude:
 Operating: Sea Level to 10,000-ft
 Non-Operating: Sea Level to 40,000-ft
3. Humidity: 0 to 100% Relative Humidity
4. Salt Atmosphere: Per MIL-STD-810F, Method 521.2
5. Vibration: Per MIL-STD-810F, Method 514.5,
 Category 4, 6, 11, 17, 18 & 21, Procedure I, II & IV
6. Shock: Per MIL-STD-810F, Method 516.5,
 Procedure I (Functional) & VII (Rail)
7. Temperature Cycling: Per MIL-STD-883, Method 1010.8, Test Condition B
8. Materials and Finish: Non-nutrient to fungus and non-corrosive in the specified application environment
9. Package (see Figure 1):

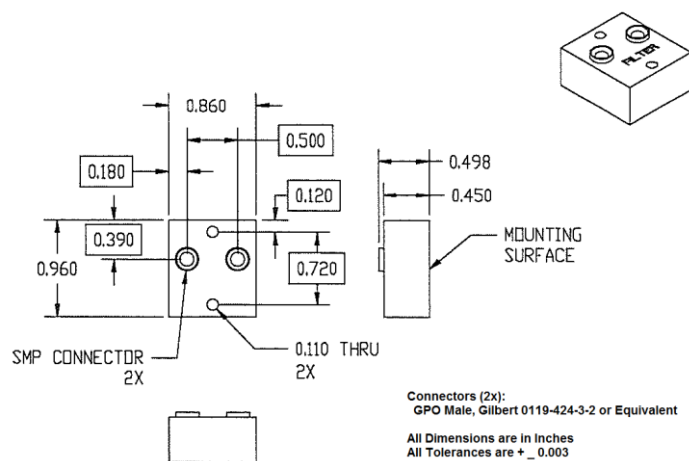


Figure 1 –Filter Package Outline Drawing

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