

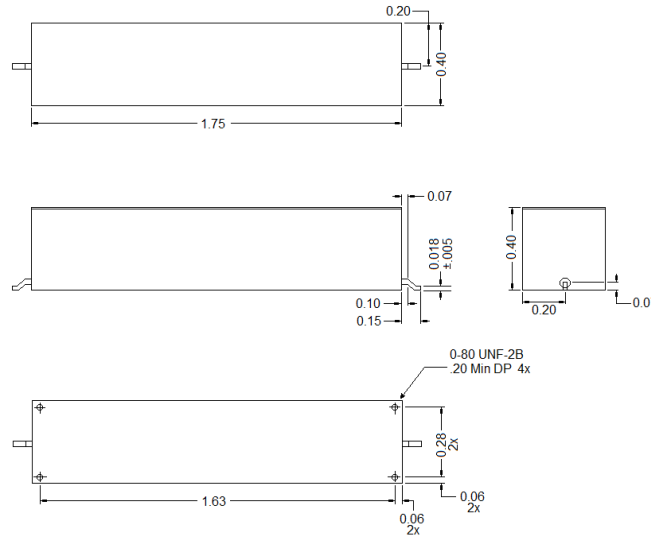
## Specification for a Bandpass LC Filter MtronPTI P/N: LF9406

### I. General & Electrical Requirements

1. Center Frequency ( $F_{ON}$ ): 3000.0MHz
2. Passband @ 1dBc: 2100MHz minimum (1950MHz to 4050MHz)
3. Insertion Loss (@  $F_{ON}$ ):  $\leq 1.3$ dBa typical
4. Return Loss (Ref to  $50\Omega$ , over the 1dBc Passband):  $\geq 14$ dB
5. Rejection (Minimum)
  - 60dBc: DC to 1500MHz
  - 60dBc: 4500MHz to 18000MHz
6. Signal Level: +20dBm CW
7.  $Z_S/Z_L$ :  $50\Omega$  nominal

### II. Environmental & Physical Requirements:

1. Temperature Range
  - Operating:  $0^\circ\text{C}$  to  $+60^\circ\text{C}$
  - Storage:  $-65^\circ\text{C}$  to  $+90^\circ\text{C}$
2. Solderability: Per EIAJ-STD-002
3. Package (see Figure 1):
  - Size: 2.05" (L) x 0.400" (W) x 0.400" (H), including Gull Wing formed leads
  - Seal: Non-Hermetic, solder sealed
  - Finish: Silver, Sn63Pb37 (or equivalent) tinned terminals



All Dimensions are in Inches

Figure 1 – Suggested Filter Package Outline Drawing

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### III. Design Simulation Plots:

