

Specification for an SMD LC Filter MtronPTI P/N LFS9182

I. GENERAL & ELECTRICAL REQUIREMENTS:

1. CENTER FREQUENCY (F_0): 457MHz nominal
2. PASSBAND: $F_0 \pm 37$ MHz
3. INSERTION LOSS (420MHz to 494MHz): ≤ 3.0 dB
4. RETURN LOSS: ≤ 15 dB
5. REJECTION
 - DC to 330MHz: 40dB minimum
 - 539MHz to 1000MHz: 40dB minimum
6. MAXIMUM INPUT POWER: 1-Watt
7. Z_{IN}/Z_{OUT} : 50 Ω nominal

II. ENVIRONMENTAL & PHYSICAL REQUIREMENTS:

1. TEMPERATURE RANGE
 - Operating: -40°C to +85°C
 - Storage: -55°C to +85°C
2. ALTITUDE:
 - Operating: Sea Level to 35000-feet
 - Storage: Sea Level to 50000-feet
3. HUMIDITY (operating): 90% non-condensing
4. SHOCK (survival): 9G
5. PACKAGE See Drawing
6. SOLDERABILITY: Per EIAJ-STD-002 (see Figure 1)

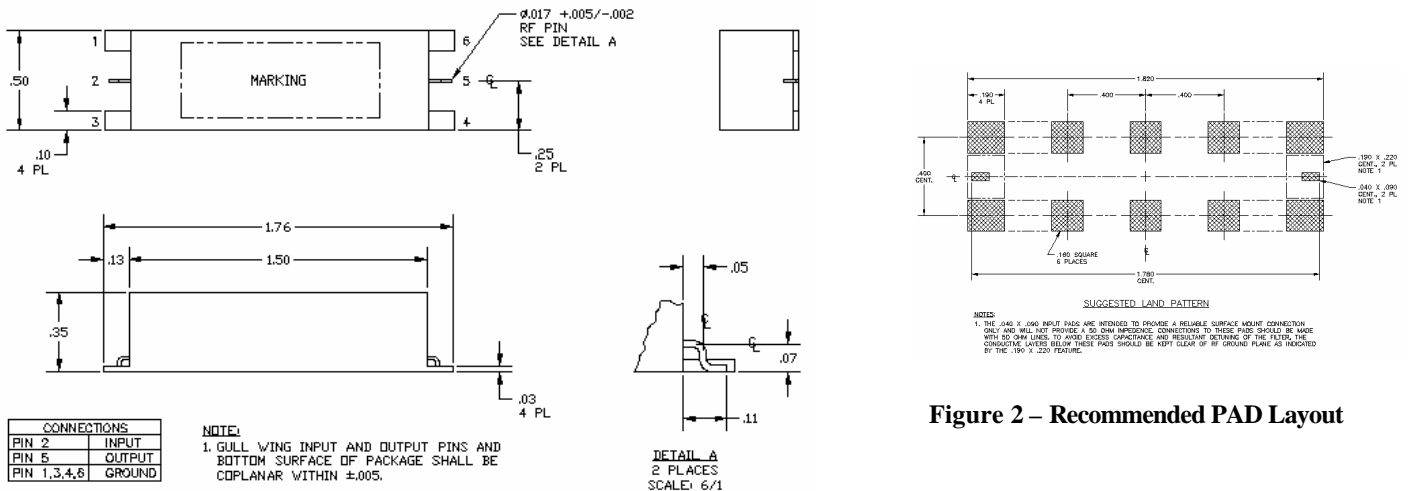


Figure 1 – Outline Drawing

Figure 2 – Recommended PAD Layout



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IV. REFLOW SOLDER PROFILE:

