

Specification for a Proposed SMD LC Filter MtronPTI P/N: LF9437

I. General & Electrical Requirements

1. Center Frequency (F_{ON}): 93.75MHz
2. Passband @ 2dB: $F_{ON} \pm 15$ MHz minimum
3. Insertion Loss (@ peak of transmission within the 2dB Passband): < 2.0dB
4. Passband Ripple (peak-valley, excluding the 2dB band edge roll-off): ≤ 0.5 dB
5. VSWR: 1.5:1 maximum
6. Rejection (Relative to Insertion Loss):
 DC to 62.5MHz: 70dB minimum
 125MHz to 620MHz: 70dB minimum
7. Z_{IN}/Z_{OUT} : 50 Ω nominal

II. Environmental & Physical Requirements:

1. Temperature Range
 Operating: -45°C to +85°C
 Storage: -50°C to +90°C
2. Solderability: Per EIAJ-STD-002
3. Package (see Figure 1):
 Size: 1.500" (L) x 0.400" (W) x 0.250" (H)
 Type: SMD (Ref. Figure 1)

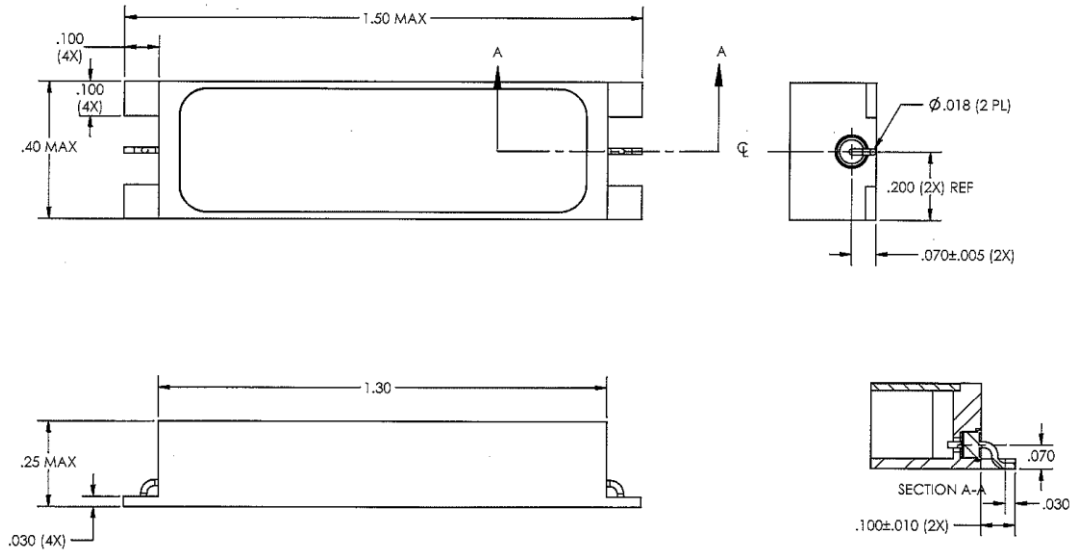
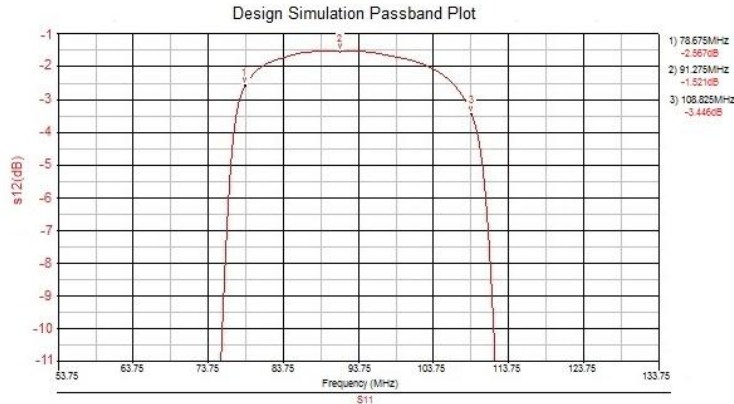


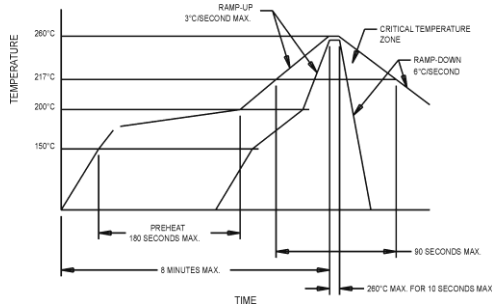
Figure 1: Proposed Outline Drawing

Specification for a Proposed SMD LC Filter MtronPTI P/N: LF9437

III. Design Simulation Plots:



IV. Maximum Solder Reflow Profile:



V. Data Sheet Revision Table:

| Date | Rev. | Author | Details of Revision |
|----------|------|--------|---|
| 04/18/13 | A | BRM | Corrected a typographical error in the Insertion Loss Specification (should have referenced a 2dB Passband and not the erroneous 1dB Passband). |
| 04/09/13 | - | BRM | Initial Release. |