

## Specification for an SMD LC Band Reject Filter MtronPTI P/N: LF9403

### I. General & Electrical Requirements

1. Upper Passband Characteristics:
  - Passband @ 4dB: 20.1MHz to 30.0MHz
  - Passband @ 6dB: 20.05MHz to 20.1MHz
  - Return Loss: 10dB minimum
2. Band Reject Characteristics
  - 16dB: 19.0Hz to 19.9MHz
3. Signal Level: +20dBm (CW) with a 2:1 load
4.  $Z_{IN}/Z_{OUT}$ : 50Ω nominal

*Note: All performance parameters are to be validated at the prototype build.*

### II. Environmental & Physical Requirements:

1. Temperature Range
  - Operating: -40°C to +85°C
  - Storage: -45°C to +90°C
2. Vibration: 10g
3. Solderability: Per EIAJ-STD-002
4. Package (see Figure 1):
  - Size: 2.000" (L) x 0.600" (W) x 0.500" (H)

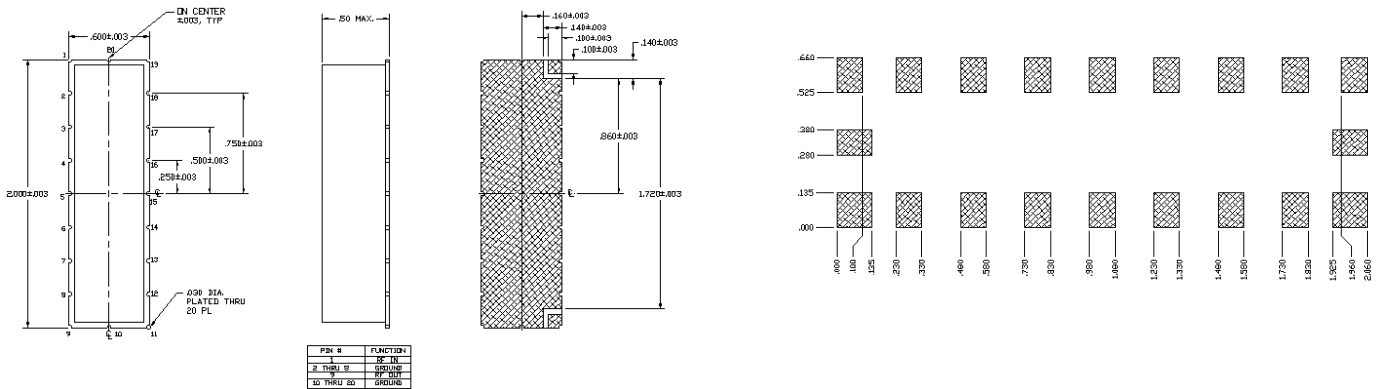
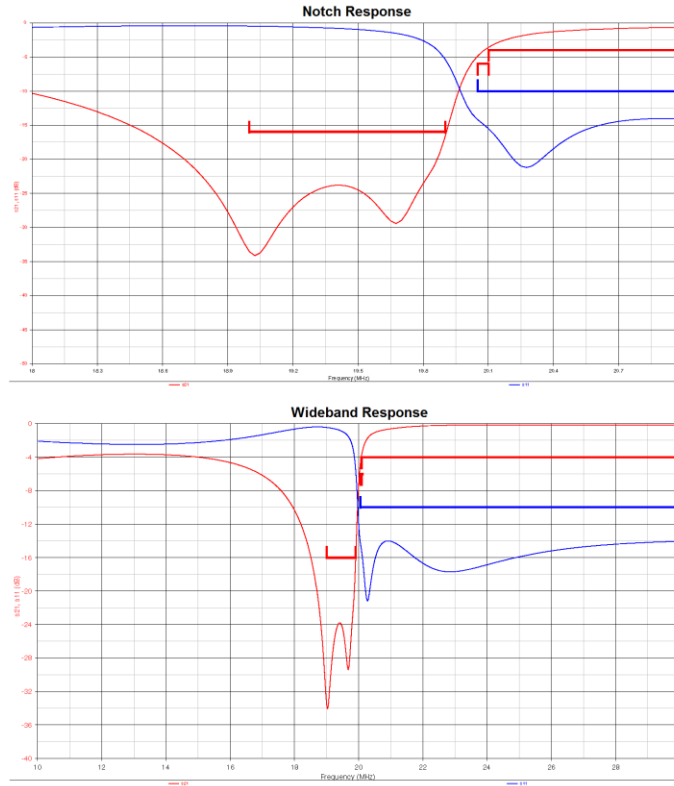


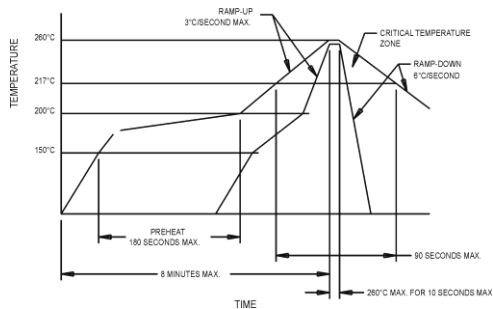
Figure 1 – Suggested Filter Package Outline & Recommended PAD Layout Drawings

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### III. Design Simulation Plots:



### IV. Maximum Solder Reflow Profile:



### V. Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
06/18/12	-	BRM	Initial Release.