

## Specification for an LC Filter MtronPTI P/N: LF9414

### I. General & Electrical Requirements:

1. Center Frequency ( $F_{ON}$ ): 254.5MHz
2. Passband: 239MHz to 270MHz, minimum
3. Insertion Loss (Across the 239MHz to 270MHz Passband):  $\leq 1.5$ dB
4. Passband Return Loss(Over 239MHz to 270MHz Passband): 15dB, minimum
5. Rejection (ref. to IL @  $F_{ON}$ )
  - DC to 210MHz: 25dB minimum
  - 300MHz to 2000MHz: 25dB minimum
6. Power Handling:  $\leq 2$ -watt CW
7.  $Z_{IN}/Z_{OUT}$ : 50 $\Omega$  nominal

### II. Environmental & Physical Requirements:

1. Temperature Range:
  - Operating: -40°C to +85°C
  - Storage: -45°C to +90°C
2. Package: 0.500" (L) x 0.500" (W) x 0.350" (H) SMD (ref. Figure 1 & Figure 2)

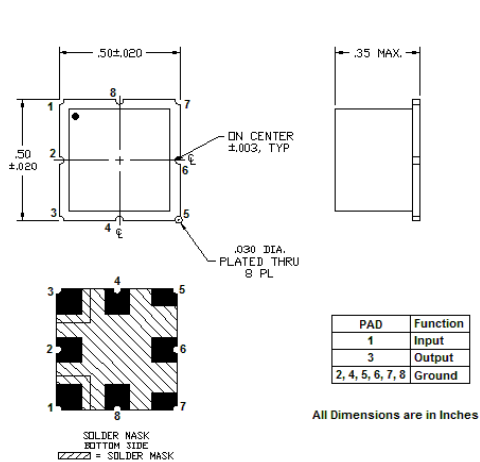


Figure 1: Package Outline Drawing

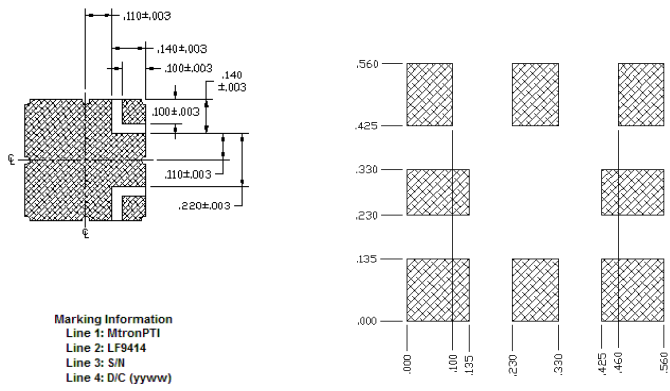


Figure 2: Recommended PAD Layout

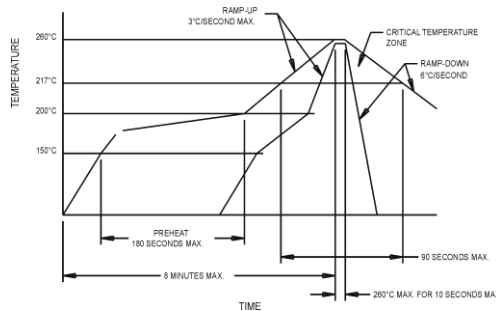
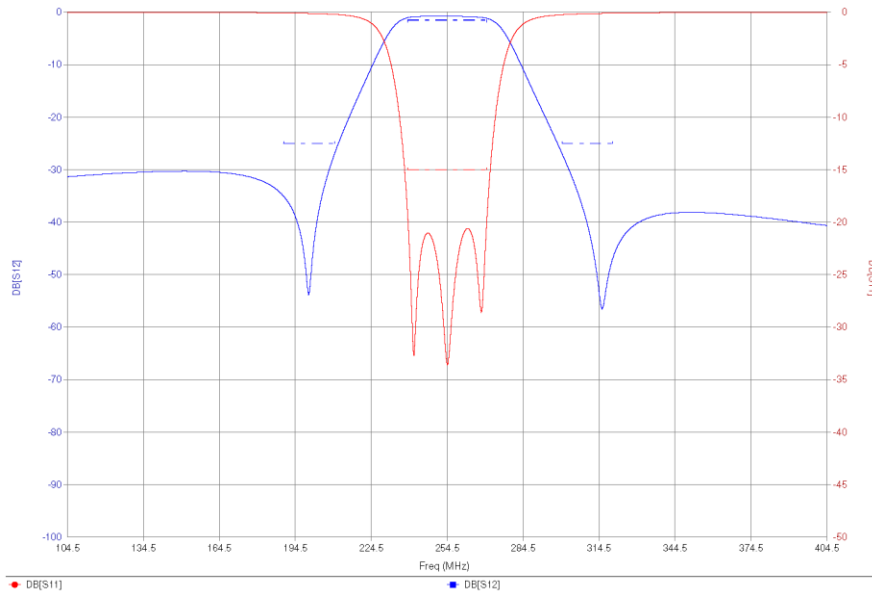


Figure 3: Maximum Reflow Profile

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### III. Design Simulation Plots:



### IV. Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
11/08/12	1	BRM	Updated the Package Outline Drawing (Figure 1.) to improve clarity on pad function designations and the part marking information.
11/06/12	0	BRM	Initial Release.