

## SPECIFICATION FOR SMT CRYSTAL MtronPTI P/N M1007S099

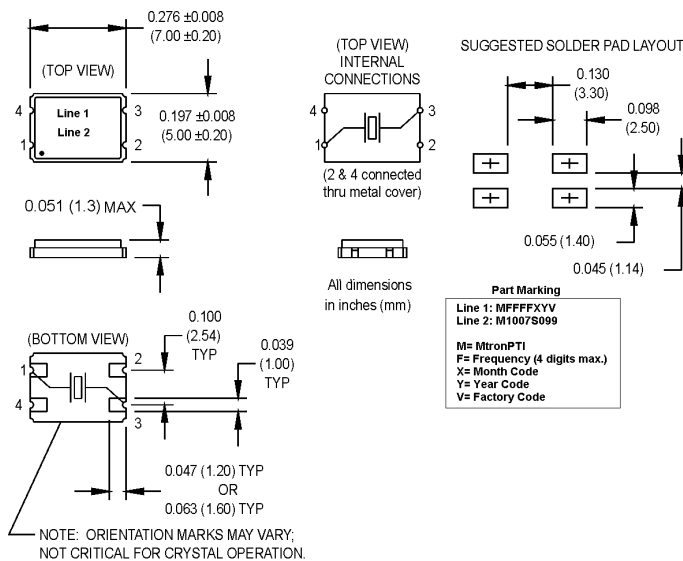
### I. GENERAL & ELECTRICAL REQUIREMENTS:

1. MODE OF OSCILLATION: Fundamental AT-Cut Crystal
2. FREQUENCY OF OPERATION: 25.000000 MHz
3. FREQUENCY TOLERANCE @ +25°C: ± 10 ppm max.
4. FREQUENCY STABILITY OVER TEMPERATURE: ± 20 ppm max.
5. OPERATING TEMPERATURE RANGE: -40°C to +70°C
6. EFFECTIVE SERIES RESISTANCE (ESR): 50 ohms max.
7. LOAD CAPACITANCE: 18 pF
8. SHUNT CAPACITANCE (Co): 7.0 pF max.
9. AGING: ± 3 ppm/year max. ± 15 ppm max. for 10 yrs.
10. DRIVE LEVEL: 1 mW max. 100 µW typical, 25 µW min.

### II. ENVIRONMENTAL & MECHANICAL REQUIREMENTS:

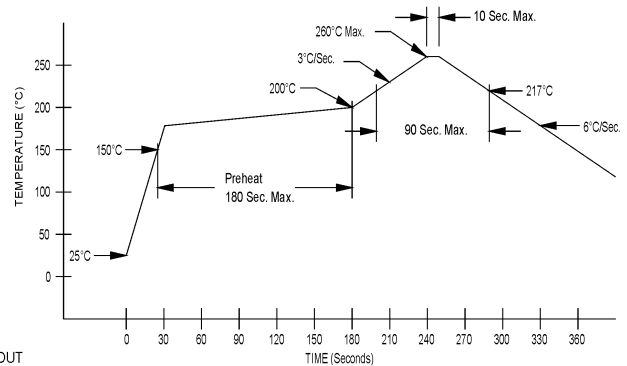
1. SHOCK: Per MIL-STD-202, Method 213, Condition C
2. VIBRATION: Per MIL-STD-202, Method 201 & 204
3. HERMETICITY: 1 X 10<sup>-8</sup> atm cc/sec min.
4. STORAGE TEMPERATURE: -55°C to +125°C
5. SOLDERABILITY: Per EIAJ-STD-002
6. MAXIMUM SOLDERING CONDITIONS: See Figure 1.
7. PACKAGE: 4- pad – 5.0 x 7.0 x 1.3 mm leadless ceramic.  
 RoHS Compliant.

### III. DIMENSIONS:



**Figure 1**

+260°C REFLOW PROFILE (RoHS COMPLIANT SOLDER)



Note: Exceeding these limits can damage the device.

### IV. DATA SHEET REVISION TABLE:

Date	Rev.	PCN	Details of Revision
12/17/07	0	N/A	Original release.
12/20/07	A	N/A	Changed Drive Level to 1 mW max. Supersedes 12/17/07 release.
12/21/07	B	N/A	Added Adtran P/N. Supersedes 12/20/07 release.