

## SPECIFICATION FOR RoHS COMPLIANT SMT CRYSTAL

### MtronPTI P/N: M1001S328

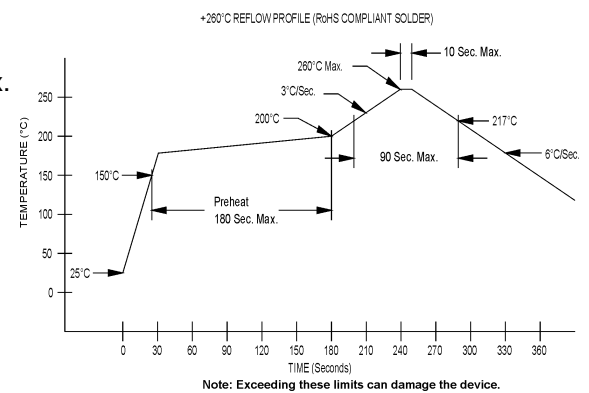
#### I. GENERAL & ELECTRICAL REQUIREMENTS:

1. MODE OF OSCILLATION: Fundamental AT-Cut Crystal
2. FREQUENCY OF OPERATION: 26.000000 MHz
3. INITIAL FREQUENCY CALIBRATION TOLERANCE @ +25°C: ± 10 ppm max.
4. FREQUENCY STABILITY OVER TEMPERATURE: ± 15 ppm max. (Ref. to reading at +25°C). See Figure 2 below.
5. OPERATING TEMPERATURE RANGE: -40°C to +85°C
6. EFFECTIVE SERIES RESISTANCE (ESR): 50 ohms max.
7. LOAD CAPACITANCE: 9 pF
8. SHUNT CAPACITANCE (Co): 5.0 pF max.
9. AGING: ± 3 ppm/year max.
10. DRIVE LEVEL: 50 µW min. 100 µW for correlation, 500 µW max.

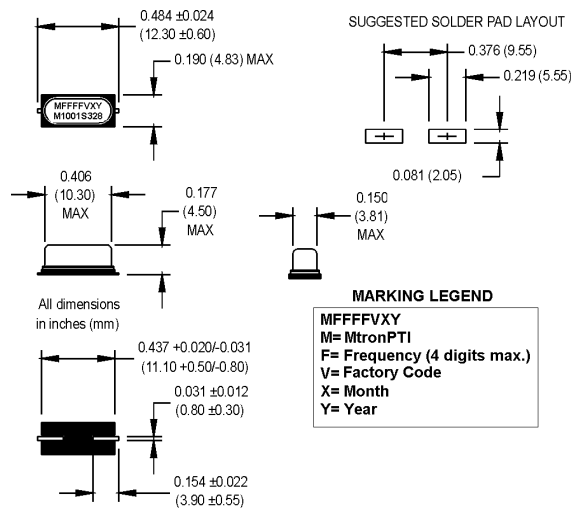
#### II. ENVIRONMENTAL & MECHANICAL REQUIREMENTS:

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. MAXIMUM SOLDERING CONDITIONS: See Figure 1.
6. SOLDERABILITY: Per EIA J-STD-002
7. PACKAGE: HC-49/S-SMD resistance weld. RoHS compliant.

**Figure 1**



#### III. DIMENSIONS



#### IV. DATA SHEET REVISION TABLE:

Date	Rev.	PCN	Details of Revision
2-26-08	B	N/A	Temperature extended to -40 to +85 with Stability factor set at +/-15ppm – expansion to M1001S286
4/16/08	C	N/A	Corrected part marking. Supersedes 2/26/08 release.
09/05/08	D	N/A	Revised stability specifications to show only ±15 ppm, -40 to +85 °C, and added graph showing typical characteristics and guaranteed specification limits.
9/23/08	E	N/A	Clarified Frequency Calibration Tolerance, and Frequency Stability Over Operating Temperature



Figure 2

