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SPECIFICATION FOR RoHS HIGH TEMPERATURE SMT CRYSTAL
MtronPTI P/N: M1001S258

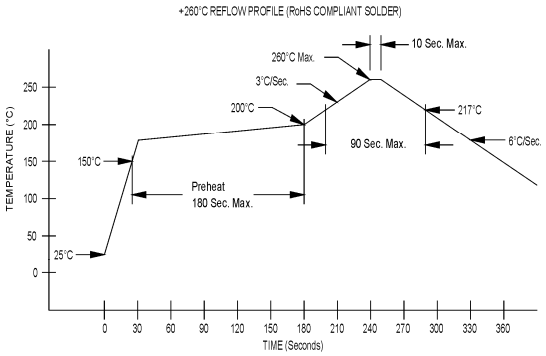
I. GENERAL & ELECTRICAL REQUIREMENTS:

1. MODE OF OSCILLATION: Fundamental AT-Cut Crystal
2. FREQUENCY OFOPERATION: 10.000000 MHz
3. FREQUENCY TOLERANCE @ +25°C: ± 50 ppm max.
4. FREQUENCY STABILITY OVER TEMPERATURE: ± 50 ppm max.
5. OPERATING TEMPERATURE RANGE: -40°C to + 125°C
6. EFFECTIVE SERIES RESISTANCE (ESR): 80 ohms max.
7. LOAD CAPACITANCE: 18 pF
8. SHUNT CAPACITANCE: 7.0 pF max.
9. AGING: ± 5 ppm/yr. max.
10. DRIVE LEVEL: 500 µW max. 50 µW min. 100 µW typical.

II. ENVIRONMENTAL & MECHANICAL:

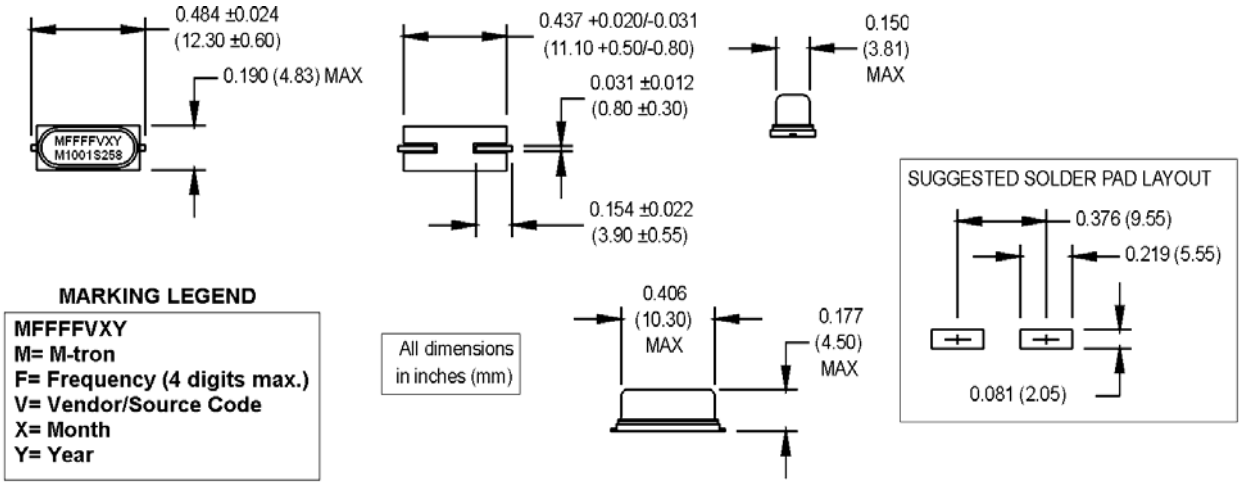
1. SHOCK: Per MIL-STD-202, Method 213, Condition C
2. VIBRATION: Per MIL-STD-202, Method 201 & 204
3. HERMETICITY: 1 X 10^{-8} atm cc/sec min.
4. MAXIMUM SOLDERING CONDITIONS: See Figure 1.
5. STORAGE TEMPERATURE: -55°C to +125°C
6. SOLDERABILITY: Per EIA J-STD-002
7. PACKAGE: HC-49S-SMD. RoHS compliant. (ATSM-49 type)

Figure 1



Note: Exceeding these limits can damage the device.

III. DIMENSIONS:



MARKING LEGEND

MFFFFVXY
M= M-tron
F= Frequency (4 digits max.)
V= Vendor/Source Code
X= Month
Y= Year

IV. DATA SHEET REVISION TABLE:

Date	Rev.	PCN	Details of Revision
10/25/06	0	N/A	Original release.