

SPECIFICATION FOR ROHS 6 COMPLIANT SMT OSCILLATOR MtronPTI P/N M2038S007-42

I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY OF OPERATION: 66.666700 MHz
2. FREQUENCY STABILITY: ± 50 ppm max. (Includes initial tolerance, deviation over temperature, voltage and load variations, shock, vibration, and aging)
3. OPERATING TEMPERATURE RANGE: 0°C to +70°C
4. AGING: ± 5 ppm max. 1st year/ ± 4 ppm max. every year thereafter
5. OPERATING VOLTAGE: 3.3 V $\pm 10\%$
6. OPERATING CURRENT: 45 mA max.
7. OUTPUT TYPE: HCMOS Compatible
8. SYMMETRY: 45/55% ref. to $\frac{1}{2}$ Vdd
9. RISE/FALL TIME: 4 nS max. ref. to 10% to 90% Vdd
10. OUTPUT LOAD: 15 pF HCMOS
11. OUTPUT CURRENT: ± 4 mA max.
12. STARTUP TIME: 10 ms max.
13. RANDOM JITTER: 15.0 ps RMS (1 Sigma)
14. OUTPUT VOLTAGE LEVELS: $V_{OL} = 10\%$ Vdd max. $V_{OH} = 90\%$ Vdd min.
15. TRISTATE CONDITIONS (Pin 1): Logic level "1" or floating; normal clock output
Logic level "0"; output disables to a high impedance state.

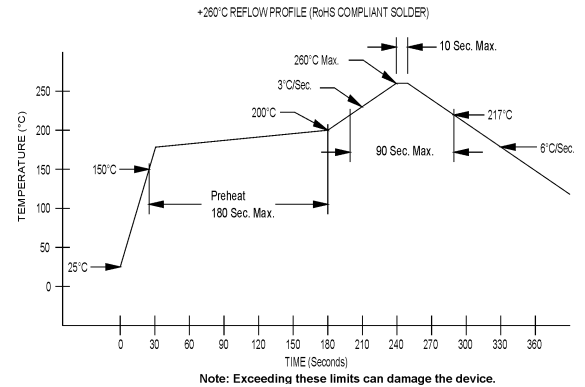
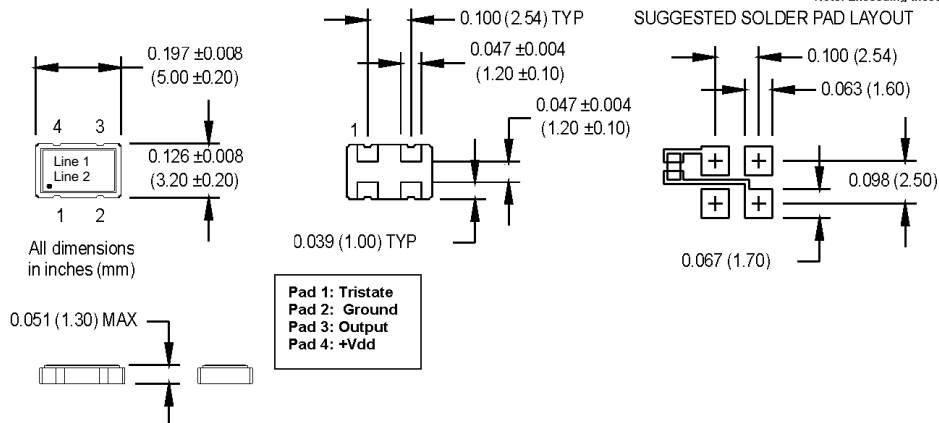
II. ENVIRONMENTAL & MECHANICAL REQUIREMENTS:

1. SHOCK: MIL-STD-202, Method 213, Condition C.
2. VIBRATION: MIL-STD-202, Methods 201 & 204.
3. HERMETICITY: 1×10^{-8} 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: 3.2 X 5.0 X 1.3 mm - 4 - pad leadless ceramic.
RoHS 6 Compliant (M3L type).

III. DIMENSIONS:

Part Marking	
Line 1	66M6667
Line 2	Myywvw

Legend	
M	MtronPTI
yy	Last two digits of Year
ww	Week Number
v	MtronPTI Factory Code



IV. DATA SHEET REV

Date	Rev.	PCN	Details of Revision
9/8/05	0	N/A	Original release.
10/19/05	A	N/A	Component drawing changed to show the current pad pattern of the M3L catalog product data sheet. Previous data sheet reflected pad layout from 2003 which is no longer correct.
05/03/13	B	N/A	Updated Part Marking.