P.O. Box 630 100 Douglas Ave. Yankton, SD 57078 USA
Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709
Website: www.mtronpti.com

SPECIFICATION FOR RoHS COMPLIANT SMT OSCILLATOR
MtronPTI P/N: M2532S041

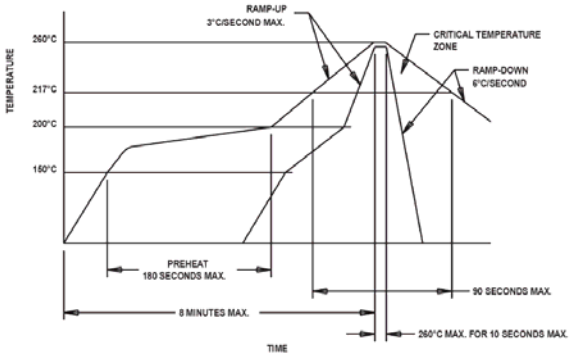
I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY OF OPERATION: 6.000000 MHz
2. FREQUENCY STABILITY: ± 50 ppm max.
3. INITIAL TOLERANCE: ± 100 ppm max.
4. AGING: ± 10 ppm max. first year.
5. OPERATING TEMPERATURE RANGE: -40°C to +85°C
6. OPERATING VOLTAGE (Vdd): 3.3 V ± 0.3 V
7. OPERATING CURRENT: 12 mA max.
8. OUTPUT TYPE: HCMOS Compatible
9. SYMMETRY: 40/60% ref. to ½ Vdd
10. RISE/FALL TIME: 6.0 nS max. ref. 10% to 90% Vdd
11. STARTUP TIME: 5.0 mS max.
12. OUTPUT LOGIC LEVELS: V_{OL} = 10% Vdd max. V_{OH} = 90% Vdd min.
13. OUTPUT LOAD: 15 pF max.
14. RANDOM JITTER: 10 ps RMS max. (1 SIGMA)
15. TRISTATE FUNCTION (Pad1): Logic level "1" or floating; normal clock output
    Logic level "0" output disables to a high impedance state.

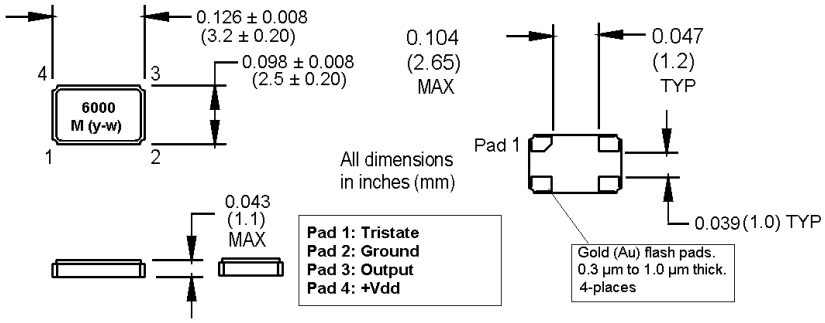
II. ENVIRONMENTAL & MECHANICAL REQUIREMENTS:

1. SHOCK: MIL-STD-202, Method 213, Condition C, 5,000 g, 0.3ms, ½ sine
2. VIBRATION: MIL-STD-202, Methods 201 & 204, 20g, 10-2,000 Hz, swept sine
3. HERMETICITY: 1 X 10^{-8} atm cc/sec min.
4. STORAGE TEMPERATURE: -55°C to +125°C
5. SOLDERABILITY: Per EIAJ-STD-002
6. MAXIMUM SOLDERING CONDITIONS: +260° for 10 seconds max. See Figure 1.
7. PACKAGE: 4 - Pad leadless 2.5 X 3.2 X 1.1 mm. RoHS compliant.

Figure 1



III. DIMENSIONS:



IV. DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
8/31/07	0	RLC	Original release.
4/13/11	A	WNJ	Updated Mechanical Drawing. Added termination (pad) material information.

The information contained herein is proprietary to MtronPTI and is submitted in confidence.
This information may not be copied or divulged without written permission from MtronPTI.