

SPECIFICATION FOR RoHS COMPLIANT SMT OSCILLATOR

MtronPTI P/N: M2532S038

I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY OF OPERATION: 14.318180 MHz
2. FREQUENCY STABILITY OVER TEMPERATURE: ± 50 ppm max.
3. INITIAL TOLERANCE AT +25°C: ± 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 $\frac{1}{2}$ 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, $\frac{1}{2}$ sine
2. VIBRATION: MIL-STD-202, Methods 201 & 204, 20g, 10-2,000 Hz, swept sine
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: 4 - Pad leadless 2.5 X 3.2 X 1.1 mm.
RoHS compliant.

III. DIMENSIONS:

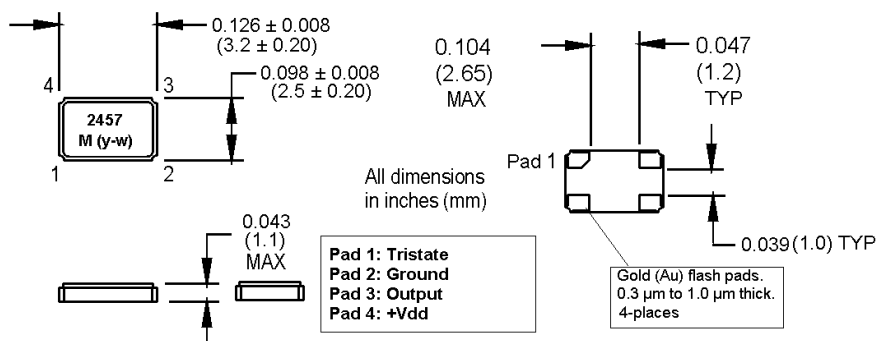
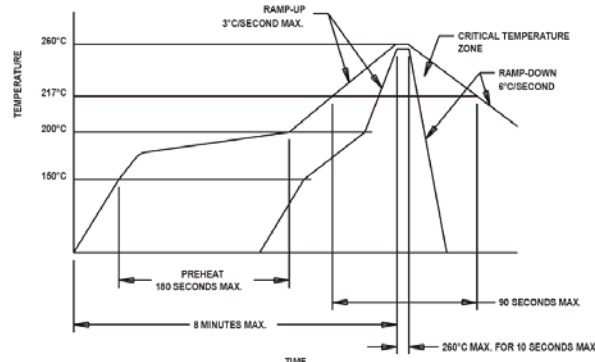


Figure 1



IV. DATA SHEET REVISION TABLE:

Date	Rev.	Orig.	Details of Revision
8/10/07	0	RLC	Original release.
8/17/10	A	WNJ	Updated Mechanical Drawing. Added termination (pad) material information.