

SPECIFICATION FOR RoHS COMPLIANT SMT OSCILLATOR

MtronPTI P/N: M2532S036

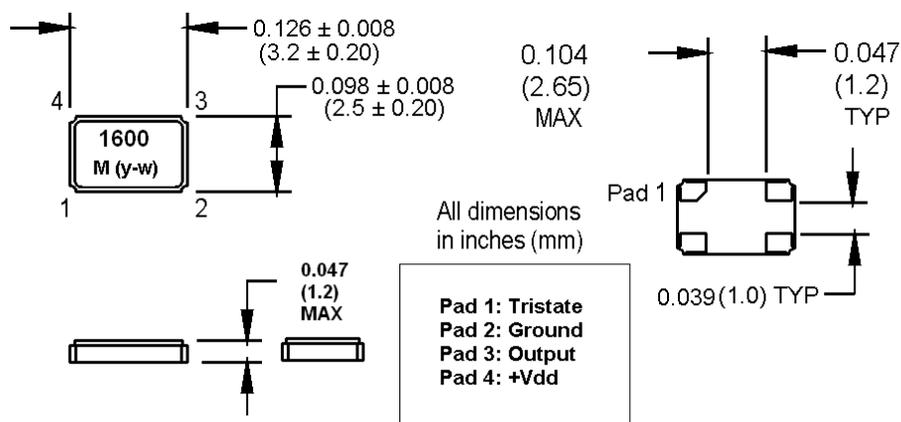
I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY OF OPERATION: 16.000000 MHz
2. FREQUENCY STABILITY: ± 100 ppm
3. FREQUENCY VS. AGING: < 3 ppm first year. 1 ppm/year max. thereafter.
4. OPERATING TEMPERATURE RANGE: -40°C to $+85^{\circ}\text{C}$
5. OPERATING VOLTAGE (Vdd): $3.3\text{ V} \pm 0.3\text{ V}$
6. OPERATING CURRENT: 10 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. 10% to 90% Vdd
10. OUTPUT LOGIC LEVELS: $V_{OL} = 10\%$ Vdd max. $V_{OH} = 90\%$ Vdd min.
11. OUTPUT LOAD: 15 pF max.
12. PHASE JITTER: 1.0 ps RMS max. (12 kHz to 20 MHz)
13. TRISTATE FUNCTION (Pad1): Logic level "1" (80% Vdd min.) or floating; normal clock output
Logic level "0"; (20% Vdd max.) 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: -40°C to $+85^{\circ}\text{C}$
5. SOLDERABILITY: Per EIAJ-STD-002
6. REFLOW SOLDER CONDITIONS: 260°C for 10 seconds max.
7. PACKAGE: 4 - Pad leadless $2.5 \times 3.2 \times 1.2$ mm. RoHS compliant.

III. DIMENSIONS:



IV. DATA SHEET REVISION TABLE:

Date	Rev.	PCN	Details of Revision
6/18/07	0	N/A	Original release.