

## SPECIFICATION FOR RoHS COMPLIANT SMT OSCILLATOR MtronPTI P/N M2532S065

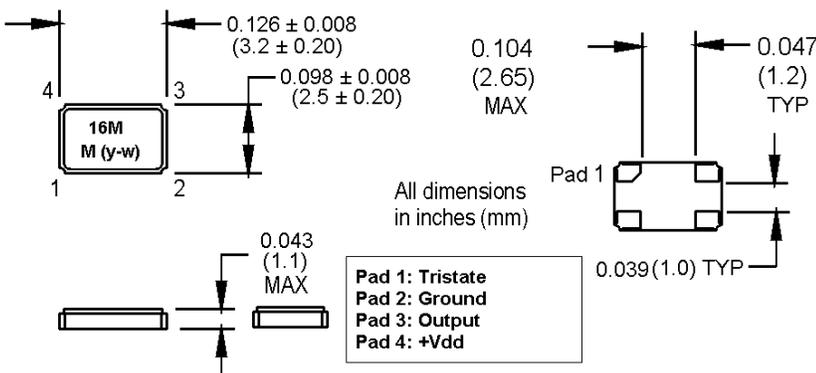
### I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY OF OPERATION: 16.000000 MHz
2. FREQUENCY STABILITY OVER OPERATING TEMPERATURE:  $\pm 100$  ppm max.
3. OPERATING TEMPERATURE RANGE:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
4. OPERATING VOLTAGE (Vdd):  $3.3\text{ V} \pm 0.165\text{ V}$
5. OPERATING CURRENT: 20 mA max.
6. OUTPUT TYPE: HCMOS Compatible
7. SYMMETRY: 45/55% ref. to  $\frac{1}{2} V_{dd}$
8. RISE/FALL TIME: 6.0 nS max. ref. 10% to 90% Vdd
9. OUTPUT LOGIC LEVELS:  $V_{OL} = 10\% V_{dd}$  max.  $V_{OH} = 90\% V_{dd}$  min.
10. OUTPUT LOAD: 15 pF max.
11. RANDOM JITTER: 10 ps RMS max. (1 SIGMA)
12. TRISTATE FUNCTION (Pad1): Logic level "1" or floating; normal clock output  
Logic level "0" output disables to a high impedance state.

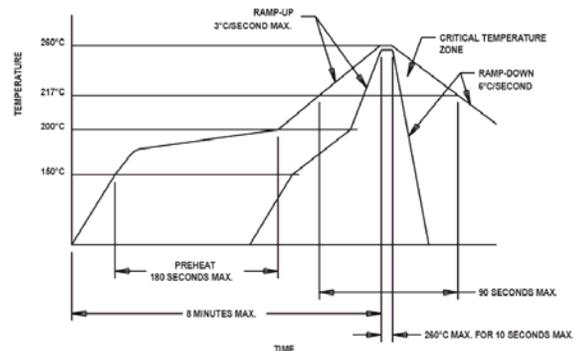
### II. ENVIRONMENTAL & MECHANICAL REQUIREMENTS:

1. SHOCK: MIL-STD-202, Method 213, Condition C
2. VIBRATION: MIL-STD-202, Methods 201 & 204
3. HERMETICITY:  $1 \times 10^{-8}$  atm cc/sec min.
4. STORAGE TEMPERATURE:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
5. SOLDERABILITY: Per EIAJ-STD-002
6. MAXIMUM SOLDERING CONDITIONS: See Figure 1
7. PACKAGE: 4 - Pad leadless  $2.5 \times 3.2 \times 1.1$  mm.  
RoHS compliant.

### III. DIMENSIONS:



**Figure 1**



### IV. DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
2/16/09	0	WNJ	Original release.