

SPECIFICATION FOR SMT HIGH TEMPERATURE OSCILLATOR MtronPTI P/N M2002S214

I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY OF OPERATION: 50.000000 MHz
2. FREQUENCY STABILITY: ± 100 ppm max.
3. OPERATING TEMPERATURE RANGE: -55°C to $+125^{\circ}\text{C}$
4. OPERATING VOLTAGE: $3.3\text{ V} \pm 0.15\text{V}$
5. OPERATING CURRENT: 20 mA max.
6. OUTPUT TYPE: HCMOS/TTL Compatible
7. SYMMETRY: 40/60% ref. to $\frac{1}{2} V_{dd}$
8. RISE/FALL TIME: 6 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. JITTER (Cycle-to-Cycle): 15 pS RMS max.
12. TRISTATE FUNCTION (Pad 1): Logic "high" or "floating", clock signal output
Logic "low", output disables to 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 $+125^{\circ}\text{C}$
5. SOLDERABILITY: Per EIAJ-STD-002
6. MAXIMUM SOLDERING CONDITIONS: See figure 1
7. PACKAGE: 4 - Pad leadless ceramic package.
RoHS 6/6 compliant.

III. DIMENSIONS:

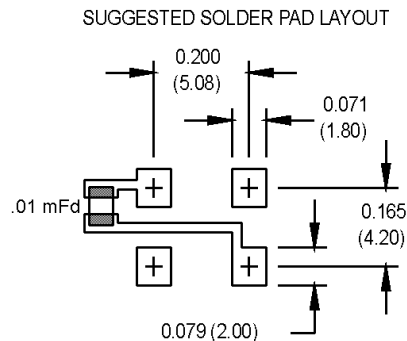
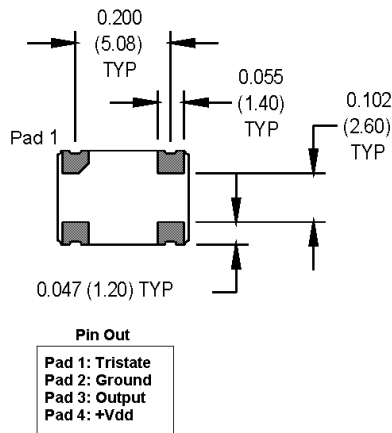
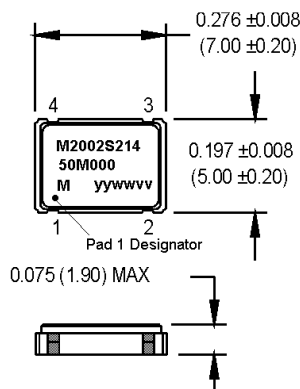
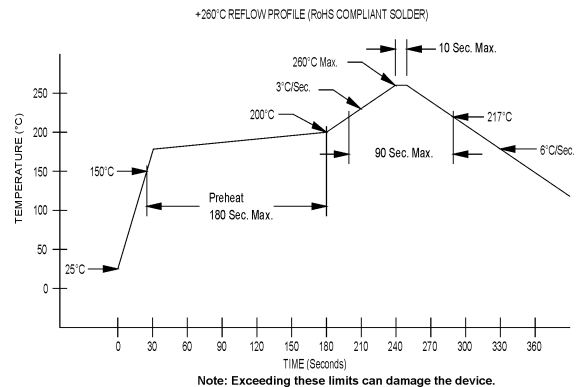


Figure 1



IV. DATA SHEET REVISION TABLE:

Date	Rev.	Orig.	Details of Revision
2/10/04	0	WNJ	Original release.
12/2/08	A	WNJ	Updated to show RoHS compliance and Maximum Soldering Conditions.