

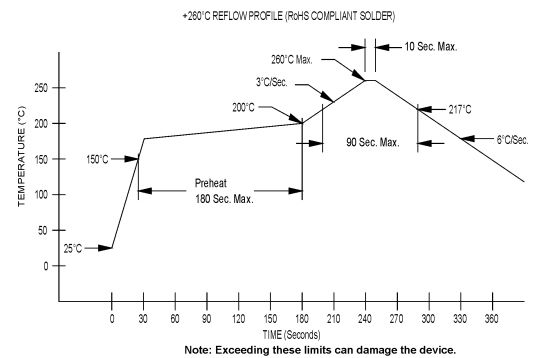
SPECIFICATION FOR SMT OSCILLATOR MtronPTI P/N M2002S251

1. FREQUENCY OF OPERATION: 27.000000 MHz
2. FREQUENCY STABILITY: ± 50 ppm max. (Includes initial tolerance, deviation over temperature, shock, vibration, voltage & load variations, and aging.)
3. OPERATING TEMPERATURE RANGE: -55°C to +105°C
4. OPERATING VOLTAGE: 3.3 V ± 0.15 V
5. OPERATING CURRENT: 20 mA max.
6. OUTPUT TYPE: HCMOS Compatible
7. SYMMETRY: 40/60% ref. to $\frac{1}{2}$ Vdd
8. RISE/FALL TIME: 3 nS max. ref. 10% to 90% Vdd
9. OUTPUT LOGIC LEVELS: $V_{OL} = 10\%$ Vdd max. $V_{OH} = 90\%$ Vdd min.
10. OUTPUT LOAD: 15 pF.
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

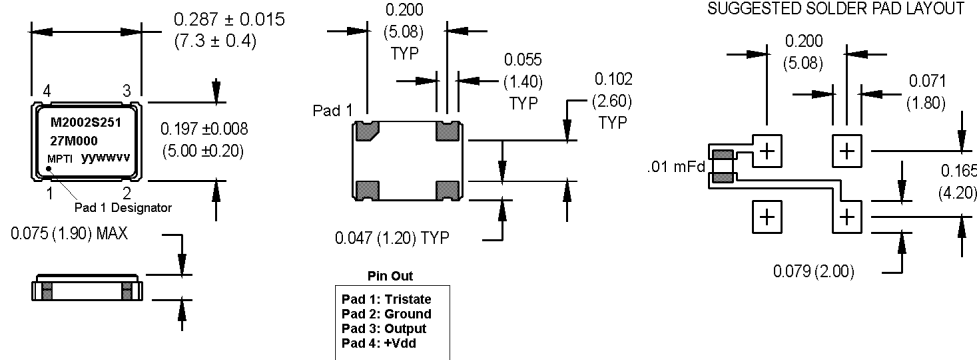
II. ENVIRONMENTAL & MECHANICAL REQUIREMENTS:

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°C
5. SOLDERABILITY: Per EIAJ-STD-002
6. MAXIMUM SOLDERING CONDITIONS: See Figure 1.
7. APPROXIMATE THETA JA: 26°C/W
8. APPROXIMATE MAXIMUM JUNCTION TEMPERATURE: +107°C.
9. PACKAGE: 4 - pad leadless ceramic package. RoHS compliant.

Figure 1



III. DIMENSIONS:



IV. DATA SHEET REVISION TABLE:

Date	Rev.	PCN	Details of Revision
5/21/04	0	N/A	Original release.
3/18/08	A	N/A	Update to MtronPTI data sheet format. Supersedes 5/21/04 release.
3/25/08	B	N/A	Added Thermal Information. Supersedes 3/18/08 release.