

## SPECIFICATION FOR SMT OSCILLATOR MtronPTI P/N M2010S065

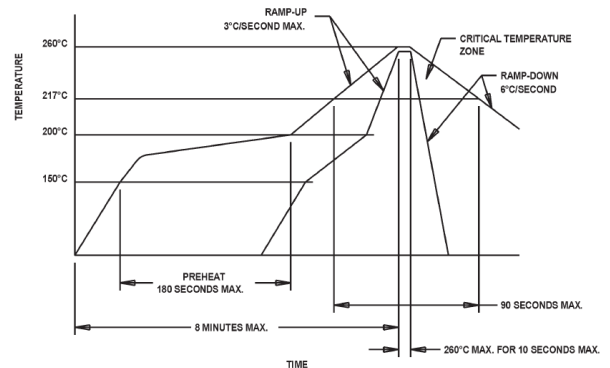
### I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY OF OPERATION: 19.440000 MHz
2. FREQUENCY STABILITY OVER OPERATING TEMPERATURE:  $\pm 15$  ppm max.
3. OPERATING TEMPERATURE RANGE: 0°C to +70°C
4. OPERATING VOLTAGE (Vdd): 5.0 V  $\pm 0.5$  V
5. OPERATING CURRENT: 20 mA max.
6. OUTPUT TYPE: HCMOS/TTL Compatible
7. SYMMETRY: 40/60% ref. to  $\frac{1}{2}$  Vdd
8. RISE/FALL TIME: 10 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 max.
11. TRISTATE FUNCTION (Pad 1): Logic "high" or "floating", clock signal output  
Logic "low", output disables to high impedance state

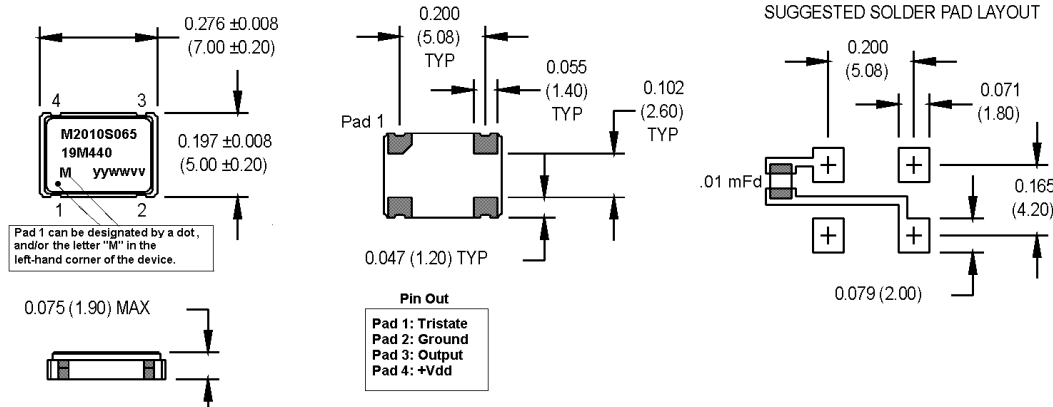
### II. ENVIRONMENTAL & MECHANICAL REQUIREMENTS:

1. SHOCK: MIL-STD-202, Method 213, Condition C.
2. VIBRATION: MIL-STD-202, Methods 201 & 204.
3. HERMETICITY:  $1 \times 10^{-8}$  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 ceramic. RoHS 6/6 compliant.

**Figure 1**



### III. DIMENSIONS:



### IV. DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
11/30/04	0	WNJ	Original release.
3/10/09	A	WNJ	Updated marking information, Added RoHS information and Maximum Soldering Conditions