

## SPECIFICATION FOR OSCILLATOR MtronPTI P/N M2014S019-R

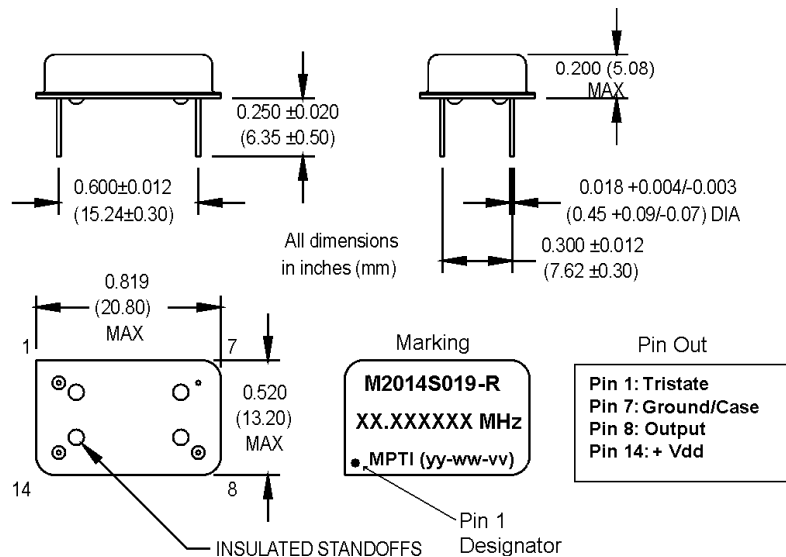
### I. GENERAL & ELECTRICAL REQUIREMENTS:

1. AVAILABLE FREQUENCY RANGE: 8.000000 MHz to 32.000000 MHz
2. FREQUENCY STABILITY OVER TEMPERATURE:  $\pm 100$  ppm max.
3. OPERATING TEMPERATURE RANGE:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
4. OPERATING VOLTAGE (Vdd):  $5.0\text{ V} \pm 10\%$
5. OPERATING CURRENT (Idd): 25 mA max. for 8.00 to 25.999 MHz. 60 mA max. for 26.00 MHz to 32.00 MHz.
6. OUTPUT TYPE: HCMOS/TTL Compatible
7. OUTPUT LOAD: 50 pF max.
8. SYMMETRY: 40/60% max. ref. at  $\frac{1}{2}$  Vdd
9. RISE/FALL TIME: 10 nS max. ref. to 10% and 90% Vdd
10. OUTPUT LOGIC LEVELS:  $V_{OL} = 10\%$  Vdd max.  $V_{OH} = 90\%$  Vdd min.
11. START-UP TIME: 8.5 mS max. under load and over operating temperature
12. TRISTATE FUNCTION (Pin 1): Logic "1", or floating, enables output.  
Logic "0" disable output to a high impedance.
13. TRISTATE INPUT CURRENT (Pin 1): 150  $\mu\text{A}$  max.

### II. ENVIRONMENTAL & MECHANICAL REQUIREMENTS:

1. SHOCK: MIL-STD-202, Method 213, Condition C.
2. VIBRATION: MIL-STD-202, Methods 201 & 204.
3. EARLY FAILURE RATE: 400 ppm max.
4. LONG TERM RELIABILITY: 75 FIT @  $+45^{\circ}\text{C}$
5. HERMETICITY:  $1 \times 10^{-8}$  atm cc/sec min.
6. SOLDERABILITY: Per EIAJ-STD-002
7. MAXIMUM WAVE SOLDER CONDITIONS:  $+260^{\circ}\text{C}$  for 10 secs max.
8. PACKAGE: 14-pin DIP compatible resistance weld. RoHS compliant.

### III. DIMENSIONS:



### IV. DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
1/22/09	0	WNJ	Original release.