

SPECIFICATION FOR HALF-SIZE OSCILLATOR

MtronPTI P/N: M2006S051

I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY RANGE: 1.000000 to 48.000000 MHz
2. FREQUENCY STABILITY: ± 100 ppm
3. OPERATING TEMPERATURE RANGE: 0°C to $+70^{\circ}\text{C}$
4. OPERATING VOLTAGE (Vdd): $5.0\text{ V} \pm 10\%$
5. OPERATING CURRENT: 40 mA max. 1.000 to 40.000 MHz. 60 mA max. > 40.000 MHz.
6. OUTPUT TYPE: HCMOS/TTL Compatible
7. SYMMETRY: 40/60% at $\frac{1}{2}$ Vdd and 1.4 V
8. RISE/FALL TIME: 10 nS max. ref. to 10% to 90% Vdd
9. OUTPUT LOGIC LEVELS: $V_{OL} = 10\%$ Vdd max. $V_{OH} = 90\%$ Vdd min.
10. OUTPUT LOAD: 50pF/10TTL max.
11. TRISTATE FUNCTION (Pin 1): Logic "1", or floating, enables output.
Logic "0", disables output to a high impedance.

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. WAVE SOLDER CONDITIONS: $+260^{\circ}\text{C}$ max. for 10 secs.
5. SOLDERABILITY: Per EIAJ-STD-002
6. PACKAGE: 8-pin DIP resistance weld. RoHS compliant.

DIMENSIONS

