

SPECIFICATION FOR VCXO
M-TRON P/N 1121-003
(Ref. Advanced Energy P/N 1651039)
Effective Date: January 20, 2000
(Supersedes August 18, 1995 Release)

I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY: 13.560000 MHz
2. FREQUENCY STABILITY OVER TEMPERATURE RANGE: ± 50 ppm
3. OPERATING TEMPERATURE RANGE: -40°C to $+85^{\circ}\text{C}$
4. OPERATING VOLTAGE: 5.0 V $\pm 10\%$
5. OPERATING CURRENT: 35 mA max.
6. OUTPUT TYPE: HCMOS/TTL Compatible
7. SYMMETRY: 45/55% ref. to $\frac{1}{2}$ Vdd
8. RISE/FALL TIME: 5 nS max. ref. 20% and 80% Vdd
9. OUTPUT LOGIC LEVELS: $V_{OL} = 20\%$ Vdd max. $V_{OH} = 80\%$ Vdd min.
11. OUTPUT LOAD: 50 pF /10 TTL
12. PULLABILITY: ± 50 ppm min.
13. CONTROL VOLTAGE (Pin 1): 0.5 V to 4.5 V (2.5 V for center frequency)
14. PIN 1 INPUT IMPEDANCE: 75K min.
15. LINEARITY: 10% max. with positive monotonic slope.

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. REFLOW SOLDER CONDITIONS: $+250^{\circ}\text{C}$ for 10 secs. max.
6. PACKAGE: 14-pin dip compatible resistance weld package. (MV24V1CD type)

DIMENSIONS

