



P.O. Box 630 100 Douglas Ave. Yankton, SD 57078 USA
Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709
Website: www.mtron.com

SPECIFICATION FOR
M-TRON P/N M1004S051
Effective Date: October 18, 2004

I. GENERAL & ELECTRICAL REQUIREMENTS

1. MODE OF OSCILLATION: Fundamental AT-Cut Crystal
2. FREQUENCY: 20.000000 MHz
3. FREQUENCY TOLERANCE @ +25°C: ± 30 ppm
4. FREQUENCY STABILITY OVER TEMPERATURE: ± 50 ppm
5. OPERATING TEMPERATURE RANGE: -40°C to +85°C
6. EFFECTIVE SERIES RESISTANCE (ESR): 50Ω max.
7. LOAD CAPACITANCE: 15 pF
8. SHUNT CAPACITANCE: 7.0 pF max.
9. AGING: ± 5 ppm/yr. max.
10. DRIVE LEVEL: 500 μW max.

II. ENVIRONMENTAL/MECHANICAL REQUIREMENTS

1. SHOCK: Per MIL-STD-202, Method 213, Condition C
2. VIBRATION: Per MIL-STD-202, Method 201 & 204
3. HERMETICITY: 1×10^{-8} atm cc/sec min.
4. SOLDERABILITY: Per EIA J-STD-002
5. PACKAGE: HC-49U/S (ATS-49 type)

DIMENSIONS

