

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.mtronpti.com



SPECIFICATION FOR SMT CRYSTAL MtronPTI P/N M1001S182

I. GENERAL & ELECTRICAL REQUIREMENTS:

- 1. MODE OF OSCILLATION: Fundamental AT-Cut Crystal
- 2. FREQUENCY OF OPERATION: 25.000000 MHz
- 3. FREQUENCY TOLERANCE @ +25°C: ± 30 ppm max.
- 4. FREQUENCY STABILITY OVER TEMPERATURE: ± 50 ppm max.
- 5. OPERATING TEMPERATURE RANGE: -40°C to +85°C
- 6. EFFECTIVE SERIES RESISTANCE (ESR): 50 ohms max.
- 7. LOAD CAPACITANCE: 18 pF
- 8. SHUNT CAPACITANCE: 7.0 pF max.
- 9. AGING: ± 5 ppm/yr. max.
- 10. DRIVE LEVEL: 500 µW max. 50 µW min. 100 µW typical

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: 1X 10⁻⁸ atm cc/sec min.
- 4. MAXIMUM SOLDERING CONDITIONS: See figure 1.
- 5. SOLDERABILITY: Per EIAJ-STD-002
- 6. PACKAGE: HC-49U/S-SMD. RoHS compliant.

III. DIMENSIONS:





Note: Exceeding these limits can damage the device.

6°C/Sec

IV. DATA SHEET REVISION TABLE:

Date	Rev.	PCN	Details of Revision
1/13/05	0	N/A	Original release.
6/17/08	А	N/A	Updated Solder Reflow Information. Supersedes 1/13/05 release.

The information contained herein is proprietary to MtronPTI and is submitted in confidence. This information may not be copied or divulged without written permission from MtronPTI.