

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 SMT OSCILLATOR MtronPTI P/N: M2005S036

I. GENERAL & ELECTRICAL REQUIREMENTS:

- 1. FREQUENCY: 7.372800 MHz
- 2. FREQUENCY STABILITY OVER TEMPERATURE RANGE: ± 50 ppm (inclusive of initial calibration, temperature deviation, loading, aging, shock, and vibration)
- 3. OPERATING TEMPERATURE RANGE: -40°C to +85°C
- 4. OPERATING VOLTAGE: 3.3 V ± 0.3 V
- 5. OPERATING CURRENT: 35 mA max.
- 6. OUTPUT TYPE: HCMOS/TTL Compatible
- 7. SYMMETRY: 45/55% ref. to 1/2 Vdd
- 8. RISE/FALL TIME: 6 nS max. ref. 10% to 90%
- 9. OUTPUT LOGIC LEVELS: $V_{OL} = 10\%$ Vdd max. $V_{OH} = 90\%$ Vdd min.
- 10. OUTPUT LOAD: 15 pF HCMOS max.
- CYCLE TO CYCLE JITTER: 20 pS (1 Sigma) max.
 TRISTATE FUNCTION (Pin 1): Logic "1", or
 - Logic "1", or floating, output enabled

Logic "0", output disabled to a high impedance state.

II. ENVIRONMENTAL & MECHANICAL REQUIREMENTS:

- 1. SHOCK: MIL-STD-202, Method 213, Condition C.
- 2. VIBRATION: MIL-STD-202, Methods 201 & 204.
- 3. HERMETICITY: 1X 10⁻⁸ atm cc/sec min.
- 4. STORAGE TEMPERATURE: -55°C to +125°C
- 5. SOLDERABILITY: Per EIAJ-STD-002
- 6. REFLOW SOLDER CONDITIONS: +240°C for 10 secs.
- 7. PACKAGE: 4- J-lead ceramic (M8S type)





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III. Product Revision Table (M2005S036):

1-13-05 A 10065 Drop In Substrate mounting in the Ceramic package changed to a "sandwich" design to improve CTE i	
	1 issues in product
testing and use in HiRel environments. Manual dispensing of epoxy changed to an automated process	S
1-13-05 Product Part Number changed to track product improvement. Product part number previously was M8	I8S24TCJ

IV. Solder Profile:

