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SPECIFICATION FOR SMT OSCILLATOR MtronPTI P/N: M2002S302

I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY: 40.960000 MHz
2. FREQUENCY STABILITY: ± 25 ppm (Includes initial tolerance at +25°C, deviation over operating temperature, voltage & load variations, shock, vibration, and 20 year aging).
3. OPERATING TEMPERATURE RANGE: -40°C to +85°C
4. OPERATING VOLTAGE: 3.3 V ± 0.3 V
5. OPERATING CURRENT: 20 mA max.
6. OUTPUT TYPE: HCMOS/TTL Compatible
7. SYMMETRY: 45/55% ref. to $\frac{1}{2}$ Vdd
8. RISE/FALL TIME: 4.0 nS max. ref. 20% to 80% Vdd
9. OUTPUT LOGIC LEVELS: $V_{OL} = 10\%$ Vdd max. $V_{OH} = 90\%$ Vdd min.
10. OUTPUT LOAD: 25 pF max. (*changed from 15pF*)
11. JITTER: 5 pS RMS max. (100 MHz)
12. TRISTATE FUNCTION (Pad 1): Logic "high" or "floating", clock signal output
Logic "low", output disables to 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: 1×10^{-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. max.
7. PACKAGE: 4 - Pad leadless ceramic package (M2 Type)

