

SPECIFICATION FOR SMT VCTCXO MtronPTI P/N M6056S002

Electrical Specifications:

| Parameter | Symbol | Min. | Typ. | Max. | Units | Conditions |
|-----------------------|---------------------|------------------------|-----------|----------|-------------|--|
| Frequency | F_R | | 20.950000 | | MHz | |
| Frequency Tolerance | $\Delta F/F$ | -1.0 | | +1.0 | ppm | @ +25°C, Initial |
| | $\Delta F/F$ | -1.5 | | +1.5 | ppm | @ +25°C, after two reflow soldering profiles |
| Frequency Stability | $\Delta F_T/F$ | -1.0 | | +1.0 | ppm | Over Operating Temperature |
| Frequency Vs. Load | $\Delta F_{LOAD}/F$ | -0.2 | | +0.2 | ppm | For 10% load change |
| Frequency Vs. Supply | $\Delta F_{VDD}/F$ | -0.2 | | +0.2 | ppm | For 10% voltage change |
| Frequency Vs. Aging | | -1.0 | | +1.0 | ppm | Per year @ 25°C |
| Operating Temperature | T_A | -30 | | +85 | °C | |
| Operating Voltage | V_{DD} | 2.85 | 3.0 | 3.15 | V | |
| Operating Current | I_{DD} | | | 2.0 | mA | |
| Output Type | | Clipped Sine wave | | | | |
| Output Load | | 10 K Ω 10 pF | | | | |
| Output Level | | 0.8 | | | V_{pk-pk} | |
| Control Voltage Range | V_{CT} | 0.5 | 1.5 | 2.5 | | Pad 1 |
| Tuning Range | | ± 5 | | ± 12 | ppm | Pad 1 |
| Phase Noise | | | -85 | | dBc/Hz | @ 10 Hz |
| | | | -110 | | dBc/Hz | @ 100Hz |
| | | | -130 | | dBc/Hz | @ 1 kHz |
| | | | -145 | | dBc/Hz | @ 10 kHz |

Environmental Conditions:

| | |
|---------------------------|--|
| Mechanical Shock | Per MIL-STD-202, Method 213, (2000 g's, 0.3 ms duration, 1/2 sinewave) |
| Vibration | Per MIL-STD-202, Method 201 & 204 (10 g's from 20-2000 Hz) |
| Hermeticity | Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium) |
| Storage Temperature | -40°C to +90°C |
| Solderability | Per EIAJ-STD-002 |
| Max. Soldering Conditions | See solder profile, Figure 1 |
| Package | 4-pad 2.5 X 3.2 X 1.0 mm leadless ceramic. RoHS compliant. |

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Dimensions, Marking, and Pin Out Information:

| Part Marking | |
|--------------|----------|
| Line 1 | 2095 YWW |
| Line 2 | .M YWW |

| Legend | |
|--------|-----------|
| Y | Year |
| WW | Work Week |

| Pin | Function |
|-----|------------------|
| 1 | Control Voltage |
| 2 | Ground |
| 3 | Output |
| 4 | +V _{DD} |

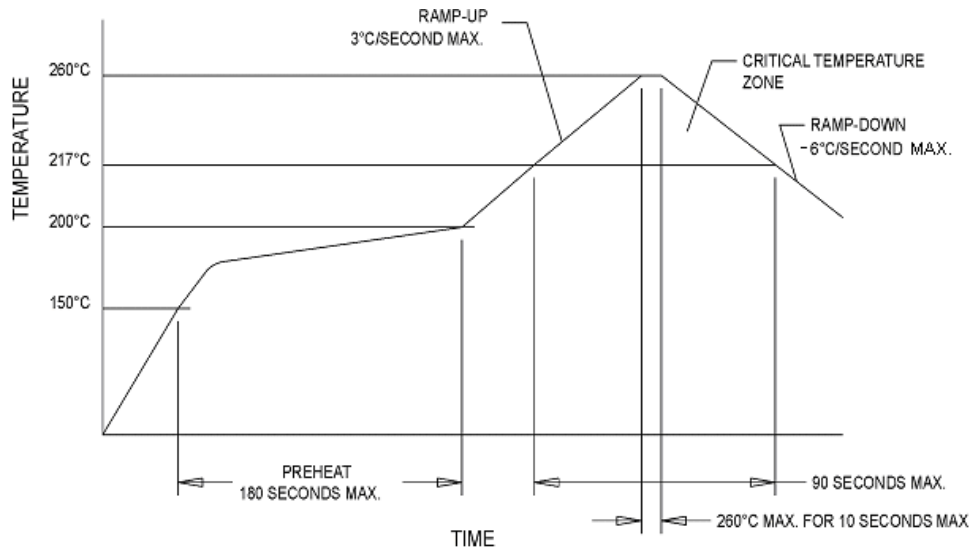
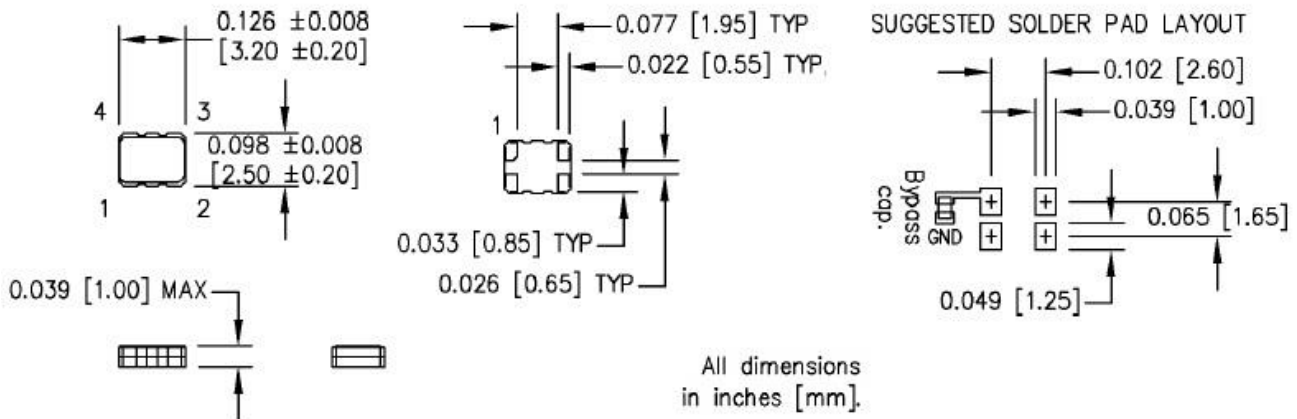


Figure 1

DATA SHEET REVISION TABLE:

| Date | Rev. | Author | Details of Revision |
|---------|------|--------|---------------------|
| 4/25/13 | 0 | HHG | Original release. |