

Model XO7080-008

Voltage Controlled Crystal Oscillator

Electrical Specifications

Nominal Frequency (F_0): 80.0MHz

Frequency Stability

Over Temperature, $\pm 12\text{ppm}$

Aging 1st Year, $\pm 1\text{ppm}$

vs. Supply Variation ($V_{CC} \pm 10\%$), $\pm 0.5\text{ppm}$

vs. Load Variation ($50\Omega, \pm 10\%$), $\pm 0.5\text{ppm}$

All Other Causes, Excluding Temperature, for
10 Years, $\pm 5\text{ppm}$

Frequency Adjustment

Adjustment Method, External Voltage, 0 to $+5.0V_{DC}$

Adjustment Tuning Range; $\pm 25\text{ppm}$, $\pm 5\text{ppm}$ tolerance

Slope, Negative

Modulation Bandwidth, 3kHz minimum

Output (Sinewave)

Level, 0dBm, $\pm 3\text{dB}$

Load, $50\Omega, \pm 10\%$

SSB Phase Noise Under Static Conditions (maximum)

-80dBc/Hz @ 10Hz offset

-115dBc/Hz @ 100Hz offset

-140dBc/Hz @ 1kHz offset

Harmonics: -20dBc, maximum

Non-Harmonics: -90dBc, maximum

Shock (survival non-operating): -50g, 11msec $\frac{1}{2}$ sine

Vibration (survival non-operating)

$0.1g^2/\text{Hz}$, 100-2000Hz

Power Supply

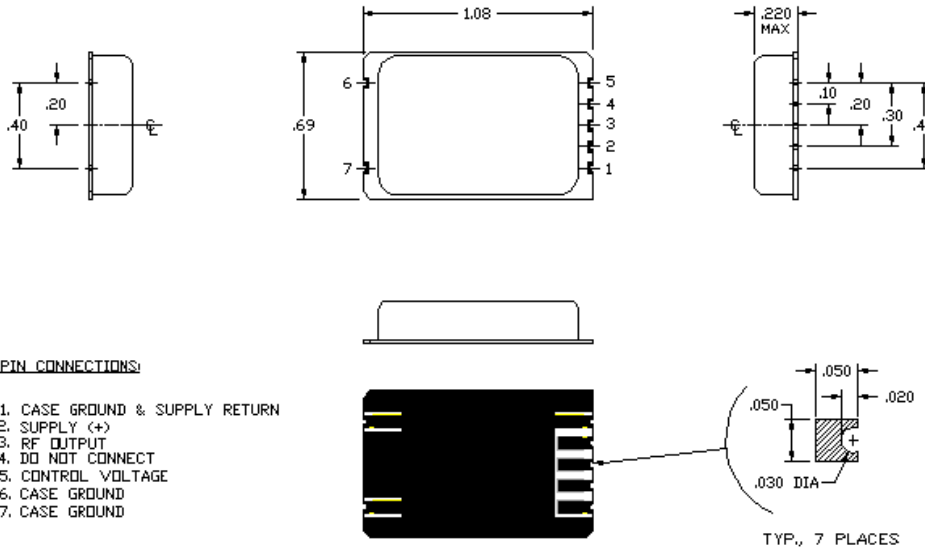
Voltage (V_{CC}), $+5.0V_{DC} \pm 10\%$

Current Consumption, 3.0ma. maximum

Temperature Range

Operating, -40°C to $+85^\circ\text{C}$

Storage, -55°C to $+85^\circ\text{C}$



Revised: April 27, 2004

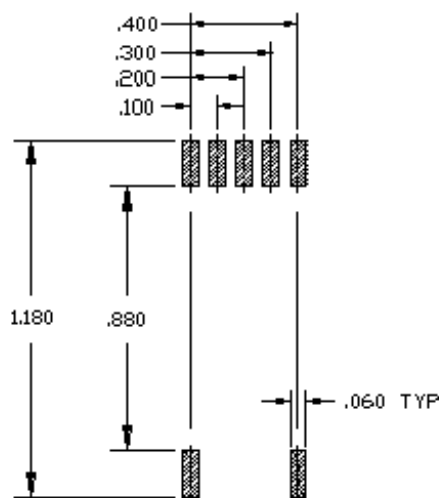
The information contained herein is proprietary to MtronPTI and is submitted in confidence.
This information may not be copied or divulged without the express written permission of MtronPTI

MtronPTI, Inc. - 2525 Shader Road – Orlando – Florida – 32804-2780
Telephone: 407-298-2000 Fax: 407-293-2979 E-mail: Sales@mtronpti.com

Model XO7080-008

Voltage Controlled Crystal Oscillator

Note: Although the XO7080 family is an SMT device, it is not currently a reflowable assembly compatible device. Therefore, it must be hand assembled to the PCB.



Suggested Land Pattern

Oscillator is to be soldered to lands by hand with a maximum land temp of 260°C for a maximum of 3 seconds .

Revised: April 27, 2004

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

MtronPTI, Inc. - 2525 Shader Road – Orlando – Florida – 32804-2780
Telephone: 407-298-2000 Fax: 407-293-2979 E-mail: Sales@mtronpti.com