Model XO7080-008
Voltage Controlled Crystal Oscillator

Electrical Specifications

Nominal Frequency (F_O): 80.0MHz

Frequency Stability
Over Temperature, ±12ppm
Aging 1st Year, ±1ppm
vs. Supply Variation (V_{CC} ±10%), ±0.5ppm
vs. Load Variation (50Ω, ± 10%), ±0.5ppm
All Other Causes, Excluding Temperature, for 10 Years, ±5ppm

Frequency Adjustment
Adjustment Method, External Voltage, 0 to +5.0V_{DC}
Adjustment Tuning Range; ±25ppm, ±5ppm tolerance
Slope, Negative
Modulation Bandwidth, 3kHz minimum

Output (Sinewave)
Level, 0dBm, ±3dB
Load, 50Ω, ± 10%

SSB Phase Noise Under Static Conditions (maximum)
-80dBc/Hz @ 10Hz offset
-115dBc/Hz @ 100Hz offset
-140dBc/Hz @ 1kHz offset

Harmonics: -20dBc, maximum

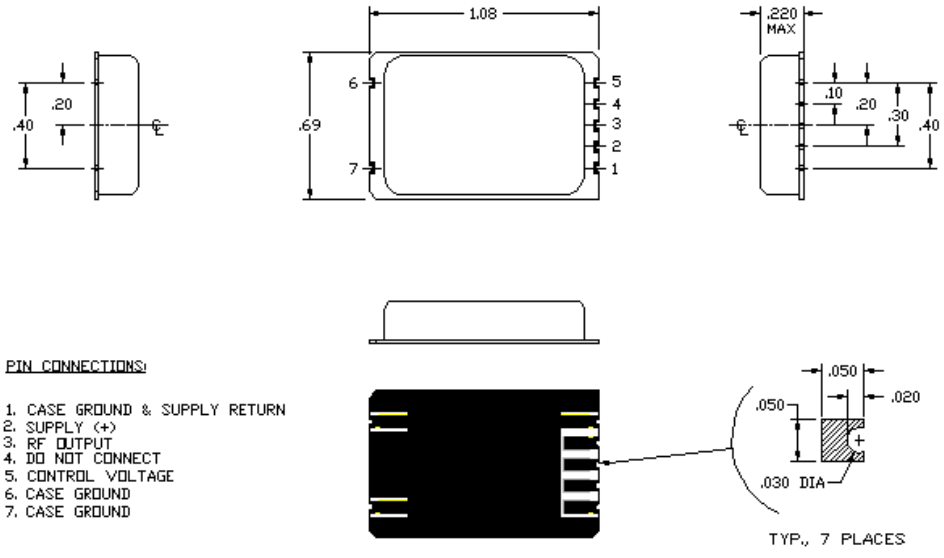
Non-Harmonics: -90dBc, maximum

Shock (survival non-operating): -50g, 11*msec* ½ sine

Vibration ()survival non-operating
0.1g^2/Hz, 100-2000Hz

Power Supply
Voltage (V_{CC}), +5.0V_{DC} ±10%
Current Consumption, 3.0*ma.* maximum

Temperature Range
Operating, -40°C to +85°C
Storage, -55°C to +85°C



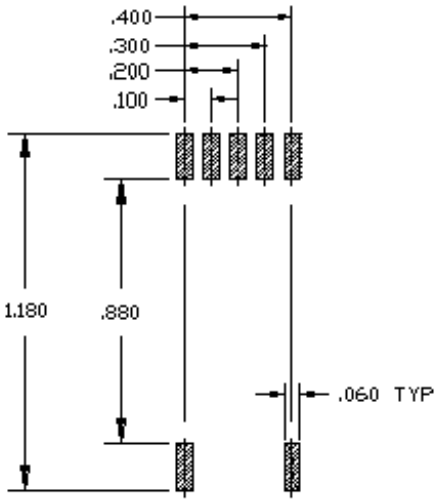
Revised: April 27, 2004

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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 .

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