



Model XO7080-008

Voltage Controlled Crystal Oscillator

Electrical Specifications

Nominal Frequency (F_0): 80.0MHz

Frequency Stability

Over Temperature, ± 12 ppm

Aging 1st Year, ± 1 ppm

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

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

All Other Causes, Excluding Temperature, for
10 Years, ± 5 ppm

Frequency Adjustment

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

Adjustment Tuning Range; ± 25 ppm, ± 5 ppm tolerance

Slope, Negative

Modulation Bandwidth, 3kHz minimum

Output (Sinewave)

Level, 0dBm, ± 3 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)

$0.1g^2/Hz$, 100-2000Hz

Power Supply

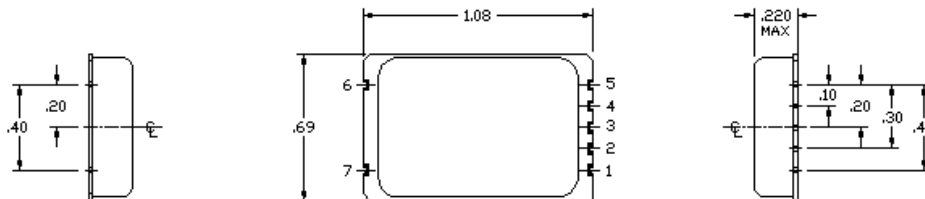
Voltage (V_{CC}), $+5.0V_{DC} \pm 10\%$

Current Consumption, 3.0ma. maximum

Temperature Range

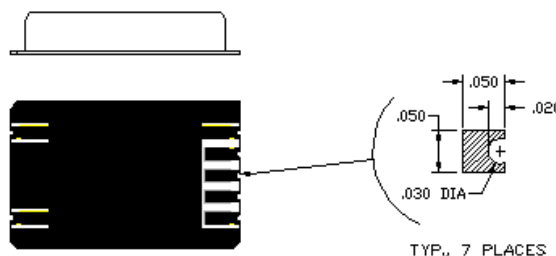
Operating, $-40^\circ C$ to $+85^\circ C$

Storage, $-55^\circ C$ to $+85^\circ C$



PIN CONNECTIONS:

1. CASE GROUND & SUPPLY RETURN
2. SUPPLY (+)
3. RF OUTPUT
4. DO NOT CONNECT
5. CONTROL VOLTAGE
6. CASE GROUND
7. CASE GROUND



Revised: April 27, 2004

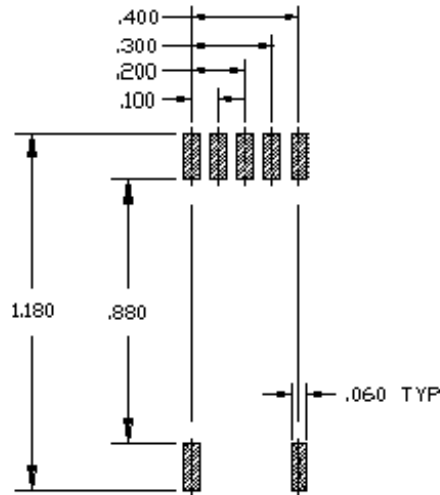
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Note: Although the XO7080 family is an SMT device, it is not currently a reflowable assembly compatible device. Therefore, it must be hand assembled to the PCB.



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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