

### Electrical Specifications

**Nominal Frequency (F<sub>0</sub>):** 80.0MHz

**Frequency Stability**

Over Temperature, ±12ppm  
 Aging 1<sup>st</sup> Year, ±1ppm  
 vs. Supply Variation (V<sub>CC</sub> ±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<sub>DC</sub>  
 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, 11msec ½ sine

**Vibration (survival non-operating)**

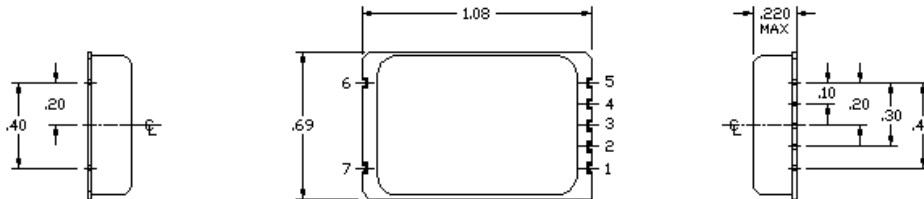
0.1g<sup>2</sup>/Hz, 100-2000Hz

**Power Supply**

Voltage (V<sub>CC</sub>), +5.0V<sub>DC</sub> ±10%  
 Current Consumption, 3.0ma. maximum

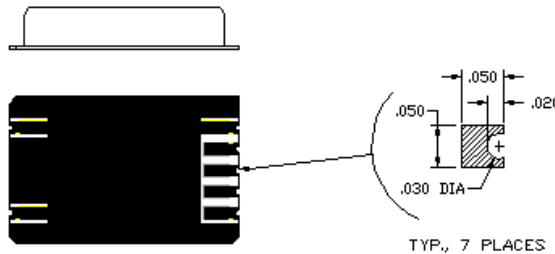
**Temperature Range**

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



TYP., 7 PLACES

Revised: April 27, 2004

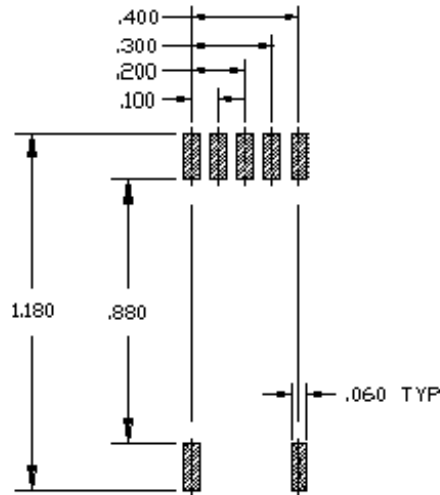
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# Model XO7080-008

## Voltage Controlled Crystal Oscillator

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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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