

Model XO3080-147 Temperature Compensated Crystal Oscillator

Electrical Specifications

Nominal Frequency (F₀): 50.0MHz

Frequency Stability

Over Temperature (with offset applied): $< \pm 1$ ppm 10-YearAging: <±3ppm

Frequency Adjustment

Method: External Voltage (V_C), 0 to +5.0V_{DC} Adjustment Tuning Range: $\geq \pm 5$ ppm

Slope: Negative

Output (Sinewave)

Level: 0dBm ±3dB Load: $50\Omega \pm 10\%$

SSB Phase Noise (typical, under static conditions)

-80dBc/Hz @ 10Hz offset

-110dBc/Hz @ 100Hz offset

-140dBc/Hz @ 1kHz offset

-150dBc/Hz @ 10kHz offset

Sub-Harmonics: -70dBc maximum

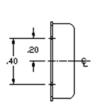
Power Supply

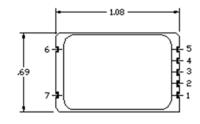
Supply Voltage (V_S): +5.0 $V_{DC} \pm 5\%$ Current Consumption: 3.0mA typical

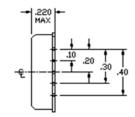
Temperature Range

Operating: -40° C to $+70^{\circ}$ C Storage: -55°C to +85°C

Solderability: Per EIAJ-STD-002

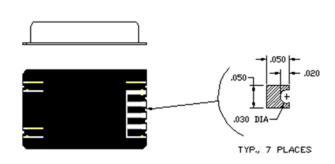






PIN CONNECTIONS:

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



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS

.XX ± .01 .XXX ± .005

Revised March 31st 2021; SAE -109

Rev. A

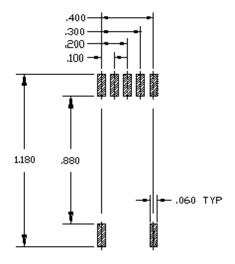
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Note: Although the XO3080 family is an SMT device, it is not a reflow assembly compatible device. Therefore, it must be hand assembled to the PCB.



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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