



Model XO3080-030

Temperature Compensated Crystal Oscillator

Electrical Specifications

Nominal Frequency (F_0): 52.5MHz

Frequency Stability over Temperature: ± 5 ppm

Aging

10-years, ± 5 ppm, maximum
 Adjustment Method, External Voltage, $0V_{DC}$ to $+5V_{DC}$
 Tuning Slope, negative
 Adjustment Tuning Range, ± 8 ppm, nominal
 ± 5 ppm, minimum

Output (Sinewave)

Level, 0dBm, ± 3 dBm
 Load, 50Ω , $\pm 10\%$

SSB Phase Noise

-72dBc/Hz @ 10Hz offset
 -100dBc/Hz @ 100Hz offset
 -130dBc/Hz @ 1kHz offset
 -145dBc/Hz @ 10kHz offset

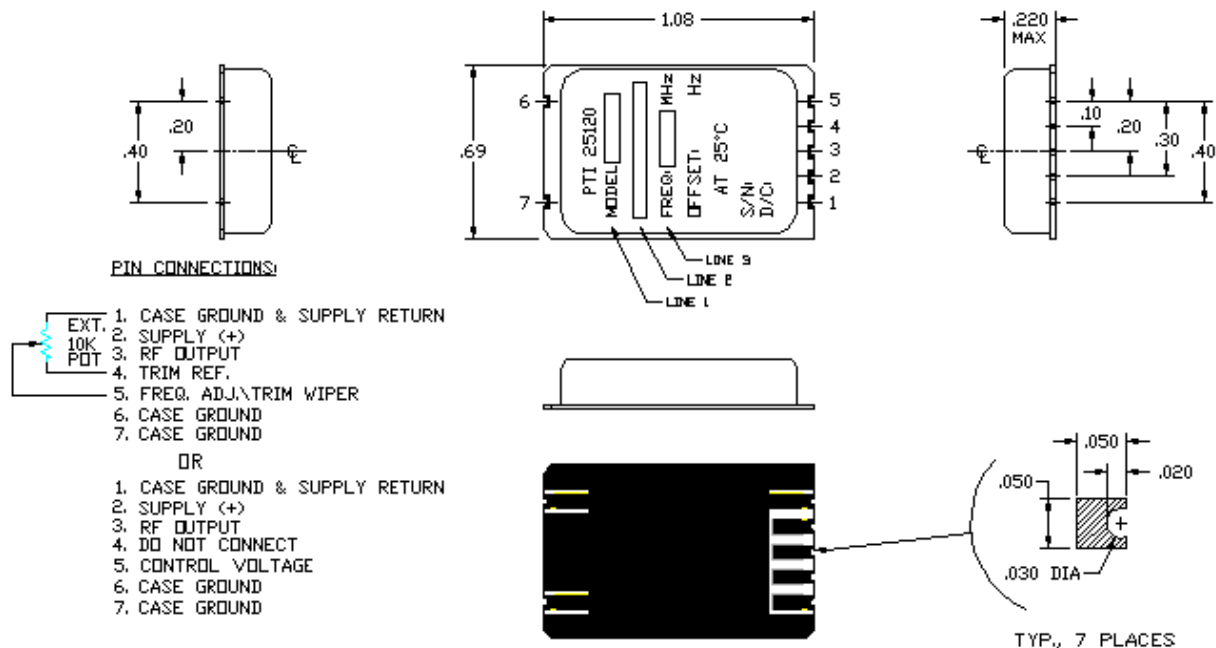
Start Up Time; 20 msec, maximum

Power Supply

Voltage, $+5.0V_{DC} \pm 5\%$
 Current Consumption, 3.0mA, maximum

Temperature Range

Operating, -55°C to $+85^\circ\text{C}$
 Storage, -70°C to $+100^\circ\text{C}$



PIN CONNECTIONS:

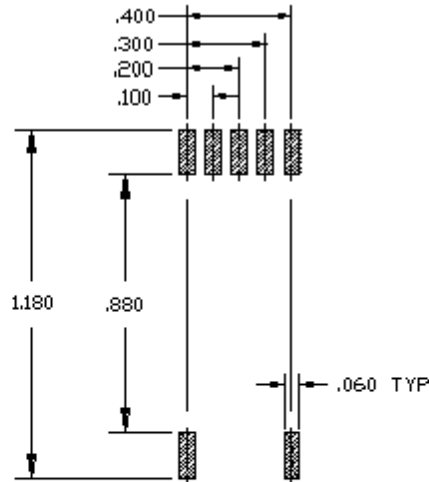
- 1. CASE GROUND & SUPPLY RETURN
 - 2. SUPPLY (+)
 - 3. RF OUTPUT
 - 4. TRIM REF.
 - 5. FREQ. ADJ.\TRIM WIPER
 - 6. CASE GROUND
 - 7. CASE GROUND
- OR
- 1. CASE GROUND & SUPPLY RETURN
 - 2. SUPPLY (+)
 - 3. RF OUTPUT
 - 4. DO NOT CONNECT
 - 5. CONTROL VOLTAGE
 - 6. CASE GROUND
 - 7. CASE GROUND

Revised: February 1, 2001



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Note: The XO3080-030 is an SMT device must be hand soldered to the PCB lands (per the drawing below) by hand.



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: February 1, 2001