Model XO7082-000
Temperature Compensated Crystal Oscillator

Electrical Specifications

Nominal Frequency (F_O): 10.0MHz

Frequency Stability over Temperature: ±15ppm

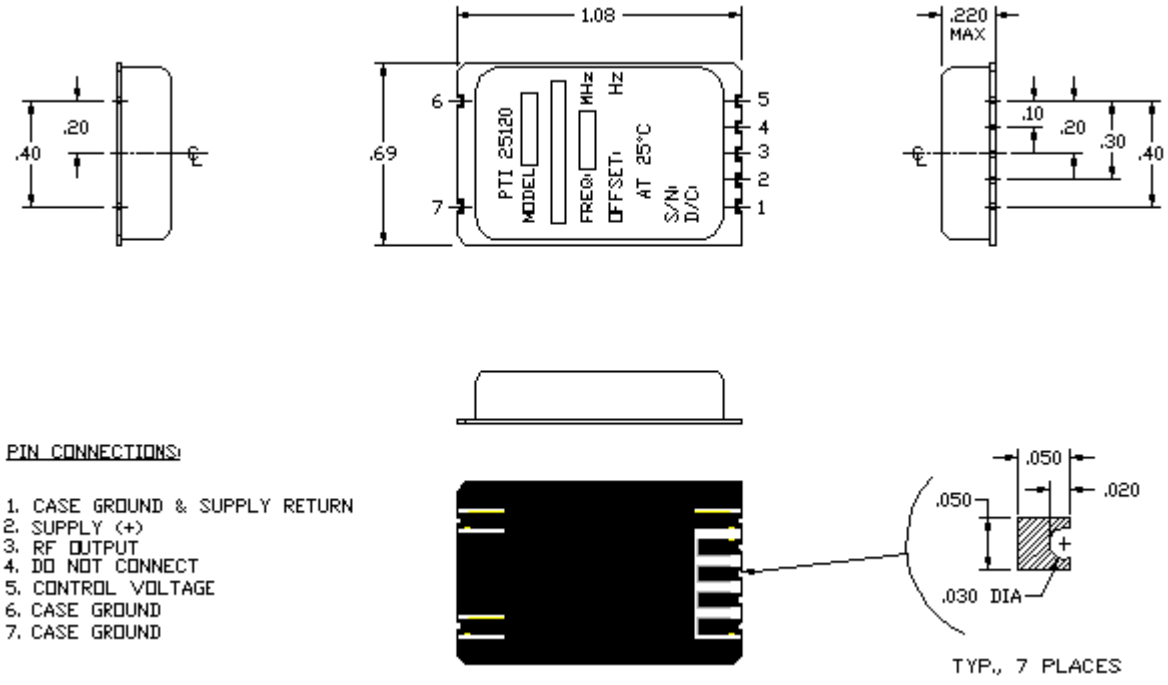
Aging
Yearly Aging, <±1ppm
10-Yearls Aging, <±4ppm
Adjustment Method, External, 0 to 5.0V_{DC}
Tuning Range, ±30ppm, nominal
Tuning Slope, negative

Output (HCMOS)
Duty Cycle, 50%, ±10%
Load, 1 gate or 10*pF*, maximum

SSB Phase Noise (maximum)
-90dbc/Hz @ 10Hz offset
-125dbc/Hz @ 100Hz offset
-135dbc/Hz @ 1kHz offset
-145dbc/Hz @ 10kHz offset

Power Supply
Voltage, +5.0V_{DC} ±5%
Current Consumption, 10.0*mA* , typical

Temperature Range
Operating, 0°C to +70°C
Storage, -55°C to +85°C



Revised September 12, 2002

Piezo Technology, Inc. - 2525 Shader Road – Orlando – Florida – 32804-2780
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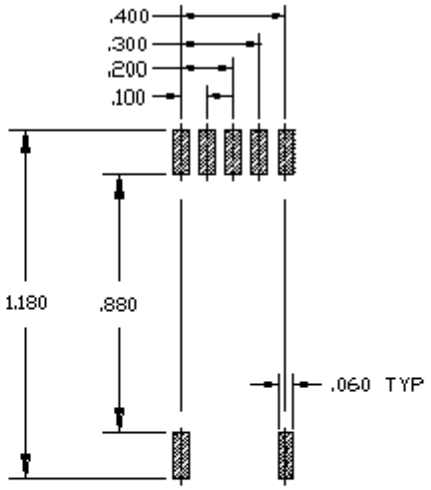
Note: ***Although the XO7082 family is an SMT device, it is not currently a reflowable assembly compatible device. Therefore, it must be hand assembled to the PCB. A version may be available in the future which will support IR convection reflow assembly techniques.***



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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