Model XO3082-000
Temperature Compensated Crystal Oscillator

Electrical Specifications

Nominal Frequency (F_O): 10.0MHz

Frequency Stability over Temperature: ±1.0ppm

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

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

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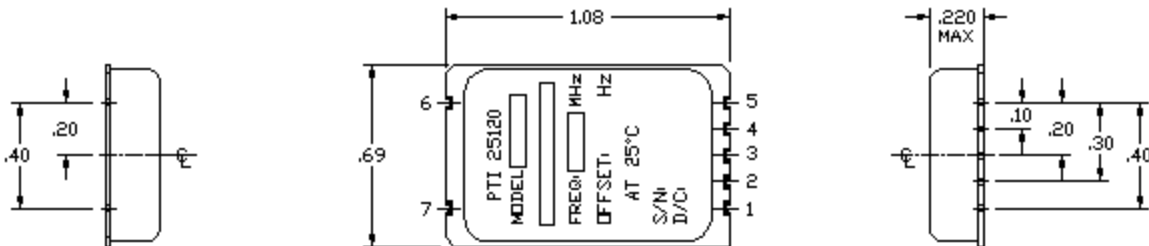 -135dbc/Hz @ 1kHz offset
  -145dbc/Hz @ 10kHz offset

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

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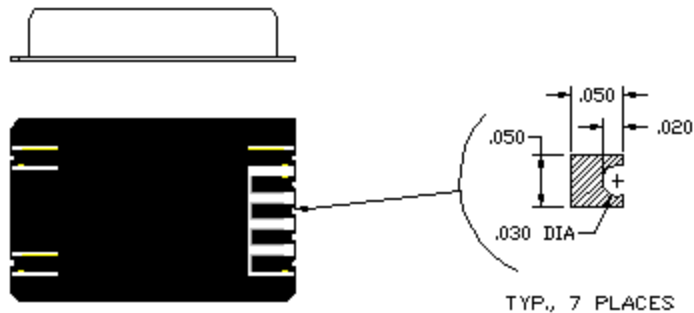 Operating, 0°C to +70°C
  Storage, -55°C to +85°C

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

Revised September 12, 2002

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Note: *Although the XO3082 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.*
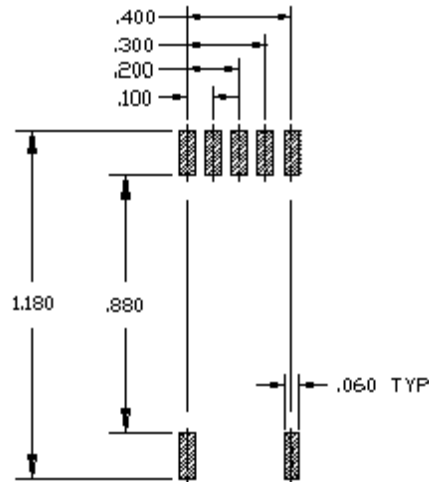
Suggested Land Pattern

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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