



# Model XO3082-019 Temperature Compensated Crystal Oscillator

Aeroflex Wichita P/N 5850-0000-300 (for Reference Only)

## Electrical Specifications

MtronPTI  
DOCUMENT CONTROL

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

**Frequency Stability**

- Over Temperature, ±1ppm
- Aging 1<sup>st</sup> Year, ±1ppm
- vs. Supply Variation (V<sub>CC</sub> ±5%), ±0.5ppm
- vs. Load Variation (10pF, ± 10%), ±0.5ppm

**Frequency Adjustment**

- Method, External Voltage, 0 to +3.3V<sub>DC</sub>
- Tuning Range; sufficient for 10-years aging correction
- Slope, Negative
- Modulation Bandwidth, 1kHz minimum

**Output (HCMOS)**

- Duty Cycle, 40%/60%
- Load, 1 gate or 10pF, maximum

**SSB Phase Noise Under Static Conditions (typical)**

- 75dBc/Hz @ 10Hz offset
- 105dBc/Hz @ 100Hz offset
- 135dBc/Hz @ 1kHz offset
- 145dBc/Hz @ 10kHz offset

**Power Supply**

- Voltage (V<sub>CC</sub>), +3.3V<sub>DC</sub> ±5%
- Current Consumption, 20mA, maximum

**Temperature Range**

- Operating, -20°C to +70°C
- Storage, -55°C to +85°C

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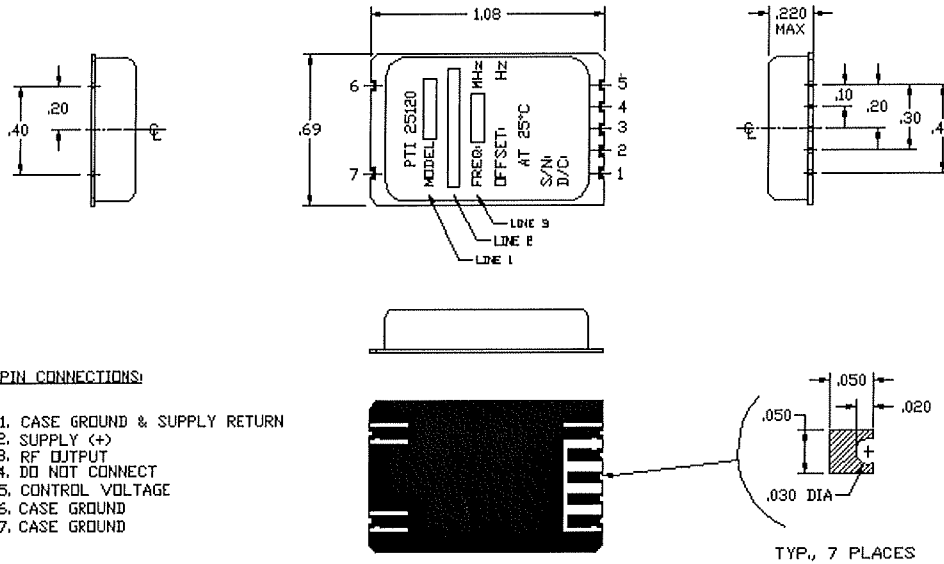
MtronPTI MODEL: XO3082-019

ENG APPROVAL: MWM

DATE: 4/9/08

MFG APPROVAL: [Signature]

DATE: 4.9.08



**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: March 14, 2008

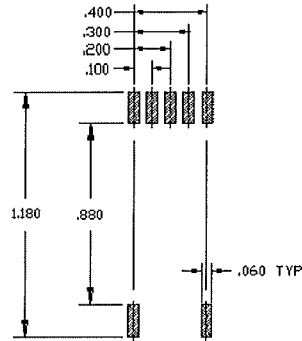
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*Note: Although the XO3082 family is an SMT device, it is not currently a reflowable assembly compatible device. Therefore, it must be hand assembled to the PCB.*



### 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.