



Model XO3082-023

Temperature Compensated Crystal Oscillator

Aeroflex Wichita P/N T.B.D. (for Reference Only)

Electrical Specifications

Nominal Frequency (F₀): 80.0MHz

Frequency Stability

- @ 25°C (with offset applied and no consideration for hysteresis), ±0.25ppm maximum
- Over Temperature (with offset applied and no consideration for hysteresis), ±0.5ppm maximum
- Aging 1st Year, <±1.0ppm
- 10-Years Aging, ±2.5ppm
- vs. Supply Variation (V_{CC} ±5%), ±0.5ppm
- vs. Load Variation (10pF, ± 10%), ±0.1ppm

Frequency Adjustment

- Method, External Voltage, 0 to +3.3V_{DC}
- 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

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DOCUMENT CONTROL

FEB 07 2007

Power Supply

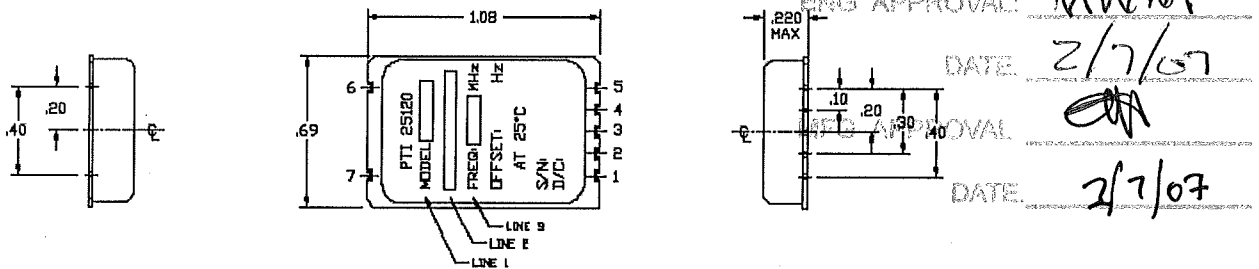
- Voltage (V_{CC}), +3.3V_{DC} ±5%
- Current Consumption, 20mA, maximum

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Temperature Range

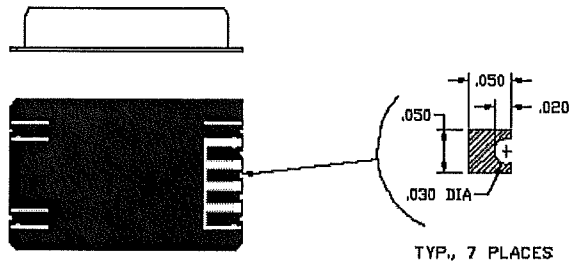
- Operating, -20°C to +70°C
- Storage, -55°C to +85°C

MtronPTI MODEL: XO3082-023



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



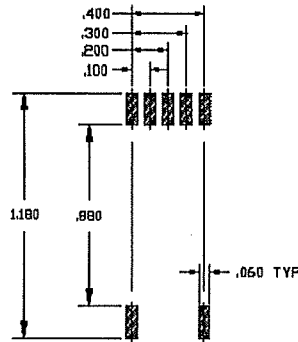
TYP., 7 PLACES

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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.