



Model XO3091-007

Temperature Compensated Crystal Oscillator

Electrical Specifications

Nominal Frequency (F₀): 5.0MHz

Frequency Stability (ref. to 25°C)

Over temperature, $\leq \pm 1.0$ ppm, maximum

Yearly aging, ± 1 ppm, maximum

Frequency Adjustment

Method, external voltage, +0.5V to +2.0V

Range, sufficient for 10-years aging correction

Positive Slope

Input Impedance, $\geq 1M\Omega$

Power Supply

Voltage (V_{SUPPLY}), +5.0V_{DC} $\pm 5\%$

Current Consumption, $\leq 15mA$

Output (HCMOS)

Load, 15pF, nominal

Level, High, 90% of V_{SUPPLY}

Low, $\leq 10\%$ of V_{SUPPLY}

Duty Cycle, 50%, $\pm 3\%$

Rise (20% to 80%)/Fall (80% to 20%) times, $\leq 6nsec$

SSB Phase Noise (typical)

-85dBc/Hz @ 10Hz offset

-110dBc/Hz @ 100Hz offset

-130dBc/Hz @ 1kHz offset

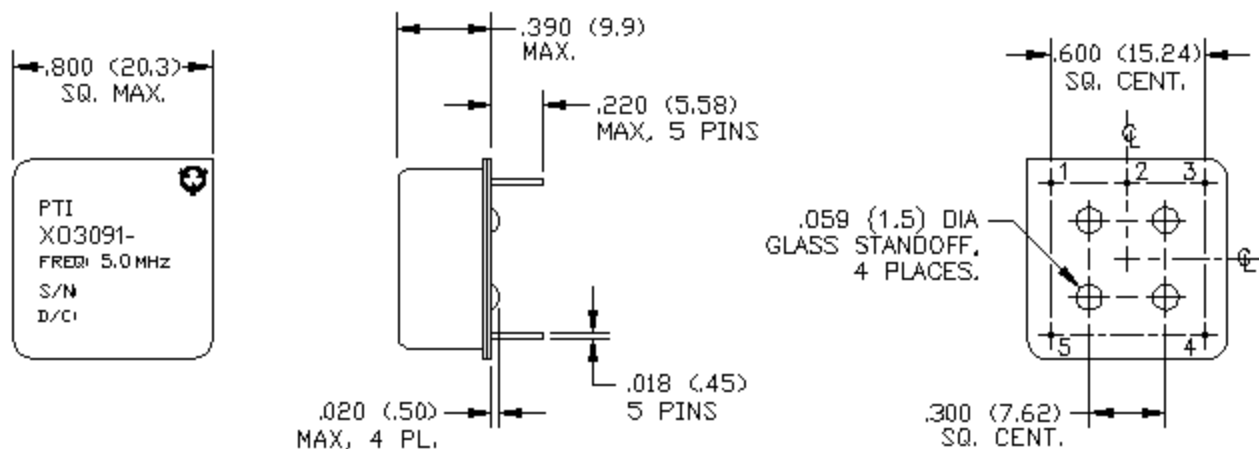
-140dBc/Hz @ 10kHz offset

-145dBc/Hz @ 100kHz offset and above

Temperature Range

Operating, 0°C to +70°C

Storage, -55°C to +85°C



| PIN | FUNCTION |
|-----|----------------|
| 1 | SUPPLY VOLTAGE |
| 2 | RF OUTPUT |
| 3 | GROUND/CASE |
| 4 | VCXO INPUT |
| 5 | N/C |

DIMENSIONS IN INCHES (MM)
PIN NO'S. SHOWN FOR REF ONLY.

Revised: October 6, 2004