

Model XO3091-008-R

Temperature Compensated Crystal Oscillator

Full RoHS Compliance

Electrical Specifications

Nominal Frequency (F₀): 59.535MHz

Frequency Stability

Over Temperature, $\pm 0.5\text{ppm}$ (w/offset applied)
 1st Year Aging, $\pm 1\text{ppm}$, maximum
 30-years Aging, $\pm 5\text{ppm}$, maximum

Frequency Adjust

Method, External Voltage, 0V to +5V_{DC}
 Range, sufficient for 30-years aging correction plus an additional $\pm 1.5\text{ppm}$
 Modulation Bandwidth, 500Hz, minimum
 Slope, positive

Power Supply

Voltage (V_{CC}), +5.0V_{DC} $\pm 5\%$
 Current Consumption, 25mA, maximum

Output (ACMOS)

Load, 15pF, nominal
 Level, High, $\geq 90\%$ of V_{CC}; Low, $\leq 10\%$ of V_{CC}
 Duty Cycle, 40% to 60%
 Rise (10% to 90%)/Fall (90% to 10%) times, $\leq 3\text{nsec}$

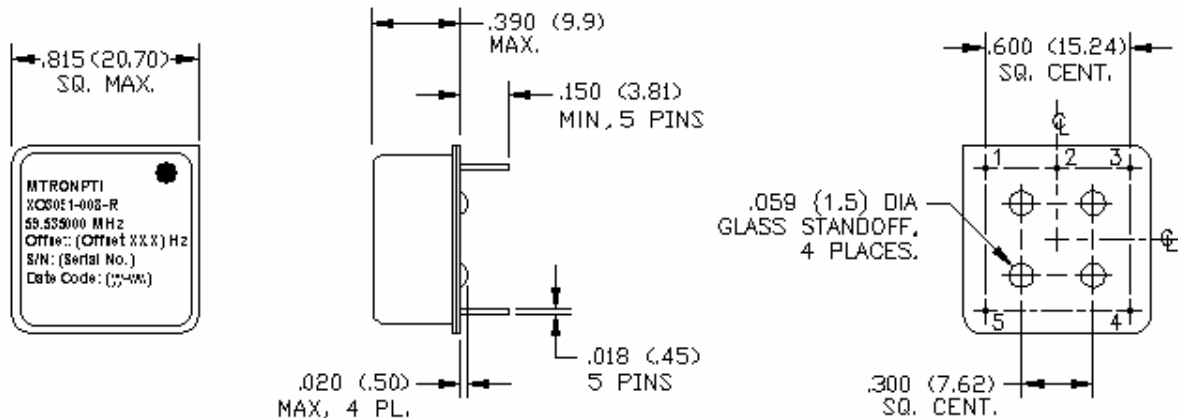
SSB Phase Noise (maximum)

-75dBc/Hz @ 10Hz offset
 -105dBc/Hz @ 100Hz offset
 -130dBc/Hz @ 1kHz offset
 -145dBc/Hz @ 10kHz offset

Temperature Range

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

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

NOTE 1: PIN1 IS LOCATED 0.300" + - 0.005 FROM EACH OF THE CENTER LINES. TOLERANCE ON THE PIN PITCH IS + - 0.005.

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