Model XO3091-006
Temperature Compensated Crystal Oscillator

Electrical Specifications

Nominal Frequency (F_O): 59.94207MHz

Frequency Accuracy:: ≤±8.5ppm for all causes

Frequency Stability
Calibration @ 25°C, ≤±1.0ppm
Over temperature (ref. to 25°C), ≤±1.0ppm
vs Supply (±5% change), ≤±0.1ppm, ref to 3.3 V
vs Load (15*pF* ±5%), ≤±0.1ppm, ref to 15*pF*
Aging 1st Year, ≤±1.0ppm
Aging over 30-years (incl. 1st year), ≤ ±5.0ppm

Frequency Adjustment
None, Pin 4 is N.C.

Output (ACMOS)
Load, 15*pF*, nominal
Level, High, ≥90% of V_{SUPPLY}; Low, ≤10% of V_{SUPPLY}
Duty Cycle, 40% to 60%
Rise (10% to 90%)/Fall (90% to 10%) times, ≤3*nsec*

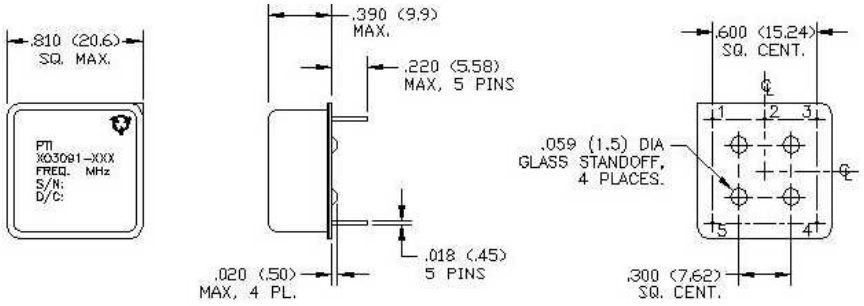
Power Supply
Voltage (V_{SUPPLY}), +3.3 V_{DC} ±5%
Absolute Maximum +3.6 volts
Current Consumption, ≤ 40*mA*

Temperature Range
Operating, -40°C to +85°C
Storage, -55°C to +105°C

Environmental (survival)
Altitude, 70,000 ft MIL-STD-883 Method 1001
Thermal Shock, MIL-STD-883 Method 1011,
15 cycles -55°C to +125°C
Damp Heat, MIL-STD-202 Method 103 for 56 days
Cyclic Damp Heat, MIL-STD-883 Method 1004,
25°C & 85°C, 90% relative humidity, 10 cycles
Acceleration, 300g, 1 minute
MIL-STD-883 Method 2001
Shock, 30 pulses 100g, 6*msec*, Sawtooth
MIL-STD-202 Method 213 Condition I
Vibration, 20g, 20Hz to 2000Hz,
MIL-STD-883 Method 2007
Hermeticity:
Fine, MIL-STD-883 Method 1004 Condition A
Gross, MIL-STD-883 Method 1004 Condition C

Reliability
MTBF, TBD target <1.8M Hrs AIF @ 55°C
Useful Life, 30 years

Marking
Polyimide Label, Resistant to All Common Solvents,
Per MIL-STD-202F, Notice 12, Method 215J



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.

MtronPTI, Inc. - 2525 Shader Road – Orlando – Florida – 32804-2780
Telephone: 407-298-2000 Fax: 407-293-2979 E-mail: Sales@mtronpti.com