

# XO3091 Series

## 5.0 Volt, HCMOS, TCXO

### Electrical Specifications

**Nominal Frequency ( $F_0$ ):** 59.535MHz

**Frequency Stability**

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

**Frequency Adjust**

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

**Power Supply**

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

**Output (ACMOS)**

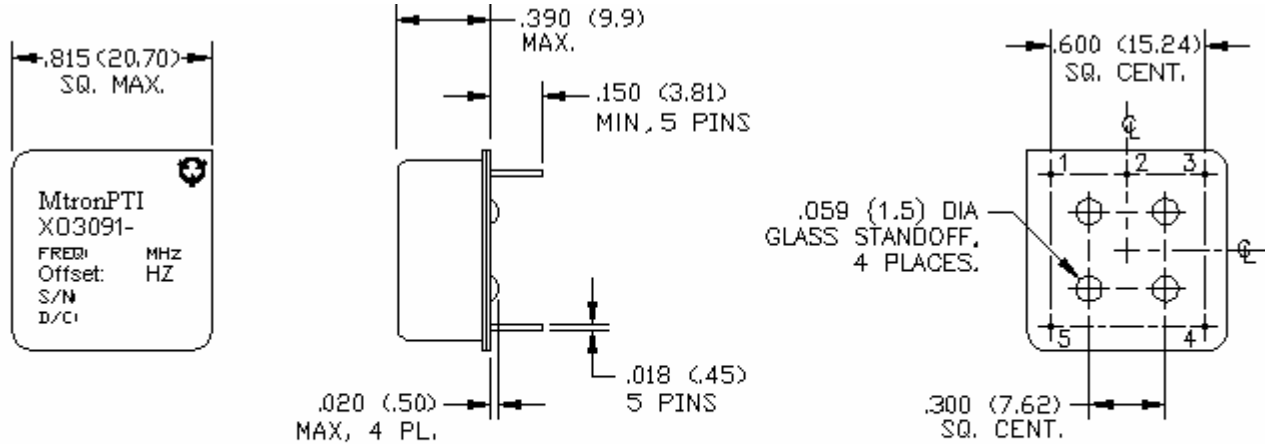
- Load, 15pF, nominal
- Level, High,  $\approx 90\%$  of  $V_{CC}$ ; Low,  $\leq 10\%$  of  $V_{CC}$
- Duty Cycle, 40% to 60%
- Rise (10% to 90%)/Fall (90% to 10%) times,  $\leq 3$ nsec

**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



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 reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see [www.mtronpti.com](http://www.mtronpti.com) for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.