

# 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)

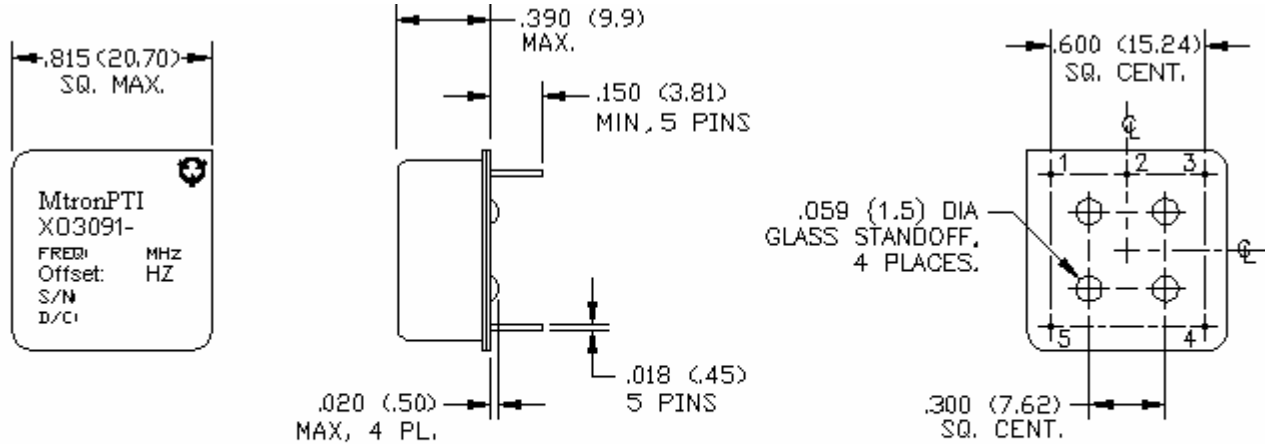
Load, 15pF, nominal  
 Level, High,  $\approx 90\%$  of  $V_{CC}$ ; Low,  $\leq 10\%$  of  $V_{CC}$   
 Duty Cycle, 40% to 60%  
 Rise (10% to 90%)/Fall (90% to 10%) times,  $\leq 3$ nsec

#### 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.