



# Model XO5083-113R Oven Controlled Crystal Oscillator

**RoHS Compliant** 

# **Electrical Specifications (typical)**

Nominal Frequency (Fo): 10.0MHz

## **Frequency Stability**

Over Temperature: ≤ ±10ppb Aging (after 30-days power on) Daily Aging: ≤ ±0.4ppb Yearly Aging: ≤ ±60ppb 20-years: ≤ ±0.3ppm

STS (Root Allan Variance, τ=1-sec): 1x10<sup>-11</sup> typical

## **Frequency Adjustment**

Method: External Voltage,  $0V_{DC}$  to  $+4.0V_{DC}$ 

Range: ±0.5ppm minimum

Linearity: < 10% Slope: Positive

## **Output (Sinewave)**

Level: +5dBmLoad:  $50\Omega \pm 10\%$ 

**Harmonics:** ≤ -25dBc

Vref: 4.1V typical, 0.2mA max sourcing

## SSB Phase Noise (static conditions, typical)

- -120dBc/Hz @ 10Hz offset
- -140dBc/Hz @ 100Hz offset
- -145Bc/Hz @ 1kHz offset
- -150dBc/Hz @ 10kHz offset

# Warm Up Time @ 25°C

To within  $1x10^{-7}$  of the frequency at 1-hour : < 3-min.

### **Power**

Supply Voltage ( $V_S$ ): +5.0 $V_{DC}$ , ±5%

Power Consumption @ 25°C Steady-State: <1.5W

Power Consumption at Turn-on: < 4.0W

#### **Environmental**

Temperature Range

Operating: -30°C to +80°C Storage: -60°C to +90°C Humidity: Hermetically Sealed

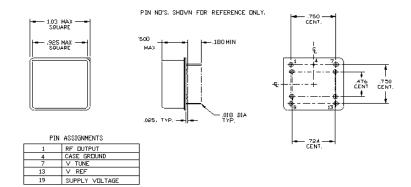
Shock (survival): Per MIL-STD-202, 30g,

half sine, 11msec

Vibration (survival): Per MIL-STD-202, 10g,

Swept sine to 2000Hz

Soldering Conditions: 260°C for 10-sec.



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