

Model XO5083-022 Oven Controlled Crystal Oscillator

Electrical Specifications (typical)

Nominal Frequency (F₀): 10.0MHz

Frequency Stability

Over Temperature: $\leq \pm 10$ ppb Daily Aging: $\leq \pm 0.50$ ppb Yearly Aging: $\leq \pm 0.1$ ppm vs Supply: $\leq \pm 2$ ppb/percent

Short Term Stability: ≤ 0.01 ppb/second

Frequency Adjustment

Method: External Voltage, $0V_{DC}$ to $+10.0V_{DC}$

Range: Sufficient for 10 years aging Modulation Bandwidth: $\geq 1 \text{KHz}$

Slope: Positive

Output (Sinewave)

 \geq +7dBm

Load: 50Ω , $\pm 10\%$

Harmonics: < -30 dBc

Warm Up Time @ 25°C

(relative to 2 hrs after turn-on following 24 hrs off)

to within 0.1ppm of final frequency: 3.0 minutes

SSB Phase Noise

-125dBc/Hz @ 10Hz offset

-152dBc/Hz @ 100Hz offset

-160dBc/Hz @ 1kHz offset

-165dBc/Hz @ 10kHz offset

-165dBc/Hz @ 100kHz offset

Power

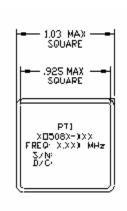
Supply Voltage: +12.0V_{DC}, ±5%

Power Consumption @ 25C° Steady State: 1.0W typ.

Power Consumption at turn-on: < 3.6W

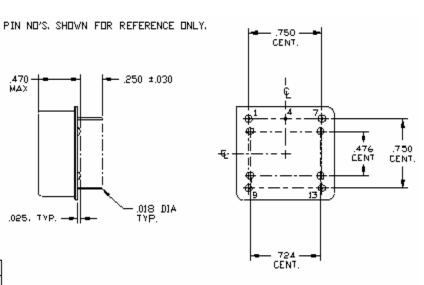
Temperature Range

Operating: -40° C to $+80^{\circ}$ C Storage: -55° C to $+85^{\circ}$ C





1	RF OUTPUT
4	CASE GROUND
7	V TUNE
13	N/C
19	SUPPLY VOLTAGE



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