

Model XO5083-020

Oven Controlled Crystal Oscillator

Electrical Specifications

Nominal Frequency (F₀): 10.0MHz

Frequency Stability

Over temperature: $\leq \pm 10$ ppb

First Year aging: $\leq \pm 0.05$ ppm

10-Years aging: $\leq \pm 2.0$ ppm

Frequency Adjust

Method: external voltage, 0V_{DC} to +4V_{DC}

Range: sufficient for >10-years aging adjustment

V_{REF} (PTI supplied), +4.1V_{DC}, typical

Modulation bandwidth: ≥ 1 KHz

Slope: Positive

Output (Sinewave)

Level: +10dBm, ± 3 dB

Load: 50 Ω , $\pm 10\%$

SSB Phase Noise (maximum)

-90dBc/Hz @ 1Hz offset

-120dBc/Hz @ 10Hz offset

-140dBc/Hz @ 100Hz offset

-145dBc/Hz @ 1kHz offset

-145dBc/Hz @ 10kHz offset

Warm Up Time @ 25°C (maximum)

To within 0.1ppm of final frequency: ≤ 2.0 minutes

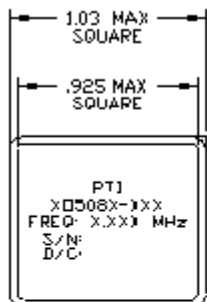
Power Supply Voltage: +5.0V_{DC} $\pm 5\%$

Power Consumption

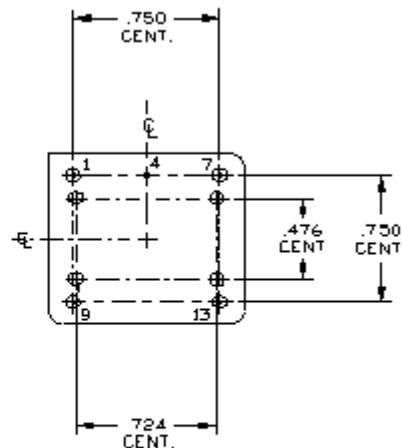
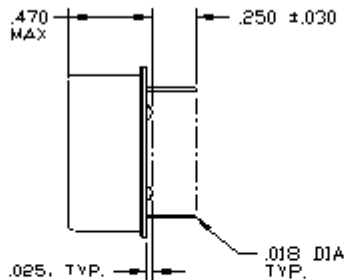
@ 25°C Steady State: ≤ 1.25 W

@ Warm Up @ 0°C: ≤ 4.0 W

Operating Temperature Range: 0°C to +70°C



PIN NO'S. SHOWN FOR REFERENCE ONLY.



PIN ASSIGNMENTS

1	RF OUTPUT
4	CASE GROUND
7	V TUNE
13	V REF
19	SUPPLY VOLTAGE