



Model XO5083-051R

Oven Controlled Crystal Oscillator

RoHS Compliant

Transcom-Taiwan: T.B.D.

Electrical Specifications (typical)

Nominal Frequency (Fo): 10.0MHz

Frequency Stability

Over Temperature (F/T): $\leq \pm 10$ ppb

Yearly Aging (after 30 days power on): $\leq \pm 0.1$ ppm

Frequency Adjustment

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

Range: Sufficient for 20 years correction for all causes including; initial offset, F/T, variations in supply (± 0.1 V) and load ($\pm 10\%$) as well as 20-years aging

Modulation Bandwidth: ≥ 1 KHz

Slope: Positive

Output (Sinewave)

Level: $\geq +7$ dBm

Load: 50 $\Omega \pm 10\%$

Harmonics: ≤ -30 dBc

SSB Phase Noise (typical)

-130dBc/Hz @ 10Hz offset

-152dBc/Hz @ 100Hz offset

-162dBc/Hz @ 1kHz offset

-165dBc/Hz @ 10kHz offset

Warm Up Time @ 25°C (relative to frequency at 1 hr after turn-on following 24 hrs off)

To within 0.1ppm of frequency at 1-hour: 4.0- minutes

Power

Supply Voltage: +12.0V_{DC} ± 0.1 V

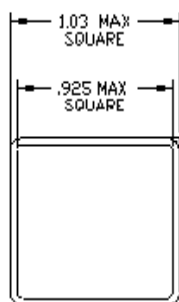
Power Consumption @ 25°C Steady State: 1.5W typ.

Power Consumption at turn-on: ≤ 3.6 W

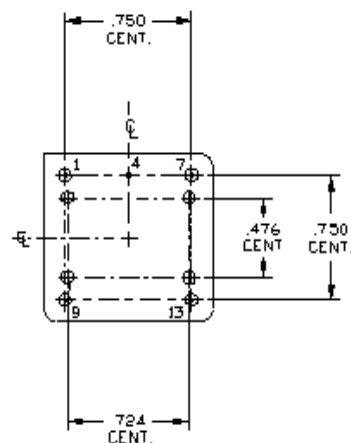
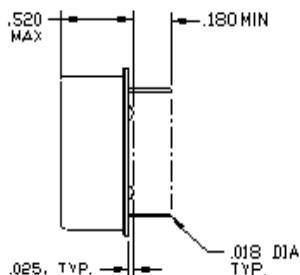
Temperature Range

Operating: 0°C to +80°C

Storage: -40°C to +85°C



PIN NO'S. SHOWN FOR REFERENCE ONLY.



PIN ASSIGNMENTS

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

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Rev. E

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