



Model XO5081-047R Oven Controlled Crystal Oscillator

Full RoHS Compliance

Electrical Specifications

Nominal Frequency (Fo): 80.0MHz

Frequency Stability

Over Temperature: <u><</u>±0.5ppm

Aging per year (after 30-days power on): < ±1ppm

Frequency Adjustment

Method: External $10K\Omega$ Potentiometer Range: Adequate for 10 year aging offset

 $Vref: +7.5V_{DC}$ typical

Output (Sinewave)

Level: > +7dBmLoad: $50\Omega \pm 10\%$

SSB Phase Noise (Typical)

-90dBc/Hz @ 10Hz offset

-117dBc/Hz @ 100Hz offset

-145dBc/Hz @ 1KHz offset

-160dBc/Hz @ 10KHz offset

Warm Up Time @ +25°C

Within 0.1ppm of the frequency@1-hour: 3-minutes typical, 5-minutes maximum

Power

Supply Voltage (V_S): +12.0 $V_{DC} \pm 5\%$

Power Consumption

Steady State @ 25C°: 2 Watts typical Warm Up@ All temps: 5-Watts Maximum

Environmental

Temperature Range

Operating: -40°C to +85°C Storage: -40°C to +90°C

Relative Humidity: Up to 95% non-condensing

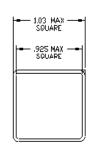
Shock/Vibration (survival):

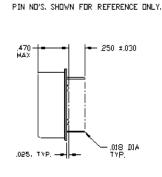
 ± 1 mm $\pm 10\%$ displacement over a frequency sweep of

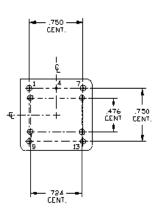
2Hz to 13.2Hz, 3-axis

Acceleration of 7m/s² over a frequency sweep of

13.2Hz to 100Hz, 3-axis







PIN ASSIGNMENTS

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

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