

Model XO5081-047R

Oven Controlled Crystal Oscillator

Full RoHS Compliance

Electrical Specifications

Nominal Frequency (Fo): 80.0MHz

Frequency Stability

Over Temperature: $\leq \pm 0.5$ ppm

Aging per year (after 30-days power on): $< \pm 1$ ppm

Frequency Adjustment

Method: External 10K Ω Potentiometer

Range: Adequate for 10 year aging offset

Vref : +7.5V_{DC} typical

Output (Sinewave)

Level: $> +7$ dBm

Load: 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): +12.0V_{DC} $\pm 5\%$

Power Consumption

Steady State @ 25°C: 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

