



Model XO5082-016R Oven Controlled Crystal Oscillator

RoHS Compliant

Electrical Specifications

Nominal Frequency (Fo): 100.0MHz

Frequency Stability (ref. to 25°C)

vs Temperature: $\leq \pm 280$ ppb

Aging (after 30 days continuous operation)

15-Years: \leq ±4.0ppm

Frequency Adjustment

Method: External voltage (V_{TUNE}), $0V_{DC}$ to $+10~V_{DC}$

Range: ±4.0ppm typical

Slope: Positive

Linearity: 10% maximum

Output (HCMOS)

Logic level '1': > +4.5VLogic level '0': < 0.5V

Duty Cycle: 40/60% @ 50% level

Load: 15pF

SSB Phase Noise (typical, under static conditions)

-90dBc/Hz @ 10Hz offset

-120dBc/Hz @ 100Hz offset

-143dBc/Hz @ 1kHz offset

-150dBc/Hz @ 10kHz offset

Warm Up Time @ -25°C

To within 0.2ppm referenced to the frequency after

power on for 1-hour: \leq 3.0-minutes

Power

Supply Voltage (V_S): +12.0 V_{DC} , ±5%

Power Consumption (with $V_S = nominal$)

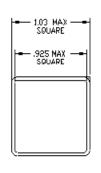
Steady State @ 25° C: ≤ 1.25 W During Warm Up: ≤ 3.3 W

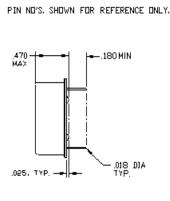
Environmental

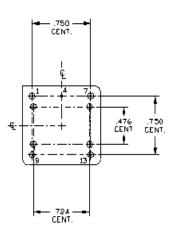
Temperature Range

Operating (OTR): 0°C to +50°C

Storage (STR): -55°C to +85°C







PIN ASSIGNMENTS

RF OUTPUT
CASE GROUND
V TUNE
N/C
SUPPLY VOLTAGE

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