



Model XO5081-015R

Oven Controlled Crystal Oscillator

RoHS Compliant

Electrical Specifications

Nominal Frequency (F₀): 100.0 MHz

Frequency Tolerance (@ Time of Shipment)
@ 25°C with V_C = +5.0V_{DC}: ±0.5ppm

Frequency Stability

Over Temperature: < ± 1ppm
Aging (after 30-days continuous operation)
Yearly Aging: < ± 0.5ppm
10 year Aging: < ± 3.0ppm

Frequency Adjustment

Method: External Voltage (V_C): 0V_{DC} to +10V_{DC}
Range:
Sufficient for 10 year aging correction
±3.0ppm minimum & ±6.5ppm maximum
Slope: Positive
Modulation Bandwidth: > 1kHz

Output (Sinewave)

Level: >7dBm
Load: 50Ω ±10%

Harmonics: < -20dBc

Spurious: < -75dBc

SSB Phase Noise (maximum)

-90dBc/Hz @ 10Hz offset
-123dBc/Hz @ 100Hz offset
-147dBc/Hz @ 1kHz offset
-160dBc/Hz @ 10kHz offset

Warm Up Time @ 25°C

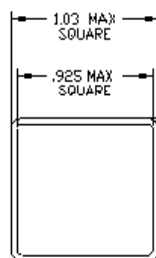
Within 0.1ppm of final frequency: < 3.0 minutes

Power Supply

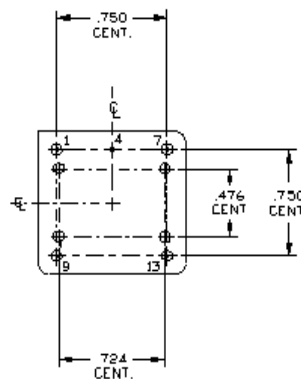
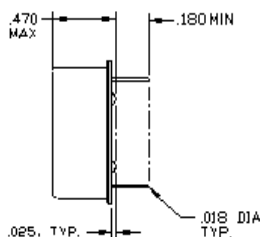
Voltage: +12.0V_{DC} ± 5%
Current: < 300mA

Temperature Range

Operating: -40°C to +85°C
Storage: -55°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: C

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