

Oscillator Specification

Part No. + Packaging: LFOCXO063809REEL

Description

 Oven controlled crystal oscillator (OCXO) with voltage control on a FR4 base with a metal lid.

■ Model IQOV-162-4

Model Issue number2

Frequency Parameters

Frequency 38.880MHz
 Frequency Tolerance @ 25°C ±500.00ppb
 Frequency Stability ±20.00ppb

Operating Temperature Range -40.00 to 85.00°C

Ageing ±5ppb max per day, ±500ppb max

per year

 Supply Voltage Variation (measurement referenced to frequency observed with TA=25°C, Vs varied from 3.13V to 3.47V, VC =1.65V and load=50Ω): ±10ppb max

 Ageing: Vs, VC, TA constant measurement referenced to frequency observed with TA=25°C, Vs= 3.3V, VC=1.65V, load=50Ω and after 30 days of operation.

 Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC =1.65V and load=50Ω): ±10ppb max

Short Term Stability - Allan Variance (temperature stability, no EMI\EMC or other interference test after power for 1hr ref. to 25°C; 1s, using PN9000 equipment): 0.1ppb max / 1sec

 Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and after 15 minutes of operation, within 30 days after ex-works): ±500ppb

 Frequency Stability: TA varied from -40°C to 85°C, measurement referenced to frequency observed with fref=(fmax+fmin)/2, Vs=3.3V, VC=1.65V, load=50Ω, temperature variable speed less than 2°C per minute.

Electrical Parameters

Supply VoltageSupply Voltage Tolerance±5%

■ Current Draw:

Warm up: 560mA max

Steady state (@ 25°C): 250mA max

Warm-Up Time (@ 25°C, F<±100ppb of final frequency): 5mins max

Frequency Adjustment

Pulling ±3ppm to ±8ppmControl Voltage Details 1.65V ±1.65V

Linearity: ±10% maxSlope: Positive

Input Impedance: 100kΩ min

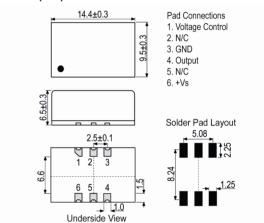
Output Details

Output Compatability Sine
 Output Load 50Ω
 Output Level: 6dBm min, 10dBm max





Outline (mm)



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Noise Parameters

- Phase Noise (@ 100MHz typ):
 - -90dBc/Hz @ 10Hz
 - -120dBc/Hz @ 100Hz
 - -145dBc/Hz @ 1kHz
 - -150dBc/Hz @ 10kHz
 - -150dBc/Hz @ 100kHz
 - -155dBc/Hz @ 1MHz
- Phase Noise (@ 10MHz typ):
 - -100dBc/Hz @ 10Hz
 - -130dBc/Hz @ 100Hz
 - -145dBc/Hz @ 1kHz
 - -150dBc/Hz @ 10kHz
 - -150dBc/Hz @ 100kHz
 - -155dBc/Hz @ 1MHz
- Harmonic Suppression: -30dBc max Spurious Suppression: -60dBc max

Environmental Parameters

- Shock: IEC 60068-2-27, Test Ea, Severity 50A: 50G, 11ms duration,
 1/2 sine wave, 3 times in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-06, Test Fc: 10Hz-500Hz, 0.75mm displacement, 10G acceleration, one cycle per 30mins, 3 times in each of 3 mutually perpendicular planes, test 2hrs
- Storage Temperature Range: -55 to 105°C
- Operable Temperature Range: -40 to 85°C
- ESD Level:

HBM, Class 2: 2000V to 4000V, JEDEC JS-001-2010 Machine Model, Class B: 200V to 400V, JEDEC JS-001-2010

Manufacturing Details

- Maximum Reflow Temperature: 260°C (30secs max)
- Moisture Sensitivity Level: 2

Compliance

■ RoHS Status Compliant■ REACh Status Compliant

Packaging

Pack Size

■ Pack Type: Reel Tape & reel in accordance with

EIA-481-D 500

■ Alternative packing option available

This document is correct at the time of printing; please contact your local office for the latest version.

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