

Part No. + Packaging: LFOCX0063816BULK

Description

Ageing

- Oven controlled crystal oscillator (OCXO) with voltage control
- IQOV-164-4 Model Model Issue number 2

Frequency Parameters

 Frequency 	12.80MHz
 Frequency Tolerance @ 25°C 	±50.00ppb
Frequency Stability	±1.00ppb

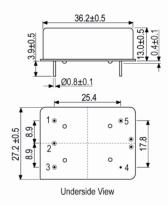
- **Operating Temperature Range** -30.00 to 75.00°C
 - ±0.5ppb max per day, ±50ppb max

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): ±0.5ppb 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): ±0.5ppb 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): 0.01ppb 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): ±50ppb
- Frequency Stability: TA varied across the operating temperature range, measurement referenced to frequency observed with fref= (fmax+fmin)/2, Vs=3.3V, VC=1.65V, load=50Ω and temperature variable speed less than 2°C per minute.

100U.767

Outline (mm)



- Pin Connections 1. +Vs 2. N/C
- 3. Voltage Control
- 4. GND
- 5. Output

Electrical Parameters

Electrical Parameters	
 Supply Voltage 	3.3V
 Supply Voltage Tolerance 	±5%
 Current Consumption: Warm up: 1400mA max Steady state (@ 25°C): 500mA max 	
Frequency Adjustment	
 Pulling 	±0.7ppm to ±1ppm
 Control Voltage Details 	1.65V ±1.65V
 Linearity: ±10% max 	
 Slope: Positive 	
 Input Impedance: 100kΩ min 	
Output Details	
 Output Compatability 	Sine

Output Load	50Ω

Output Amplitude: 6dBm min, 10dBm max

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Noise Parameters

- Phase Noise (@ 10MHz typ):
 - -125dBc/Hz @ 10Hz
 - -145dBc/Hz @ 100Hz
 - -150dBc/Hz @ 1kHz
 - -155dBc/Hz @ 10kHz
 - -155dBc/Hz @ 100kHz
 - -155dBc/Hz @ 1MHz
- Harmonic Suppression: -30dBc max Spurious Suppression: -60dBc max

Environmental Parameters

- Shock: IEC 60068-2-27, Test Ea: 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)

Compliance

RoHS Status
 REACh Status
 Compliant

Packaging

- Pack Type: Bulk
 Pack Size
 Loose in bulk pack
- 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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