

Part No. + Packaging: LFOCX0063802BULK

Description

Ageing

- Oven controlled crystal oscillator (OCXO) with voltage control on a FR4 base with a metal lid.
- Model IQOV-162-3
 Model Issue number 2

Model Issue number

Frequency Parameters		
Frequency	19.20MHz	
 Frequency Tolerance @ 25°C 	±500.00ppb	
 Frequency Stability 	±20.00ppb	
 Operating Temperature Range 	-40.00 to 85.00°C	

- ±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=15pF): ±10ppb max
- Ageing: Vs, VC, TA constant measurement referenced to frequency observed with TA=25°C, Vs= 3.3V, VC=1.65V 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=15pF): ±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=15pF, temperature variable speed less than 2°C per minute.

3.3V

±5%

Electrical Parameters

	Supply Voltage	
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- Supply Voltage Tolerance
- 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

Pul	ing	±3ppm to ±8ppm
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- Control Voltage Details
 1.65V ±1.65V
- Linearity: ±10% max
- Slope: Positive
- Input Impedance: 100kΩ min

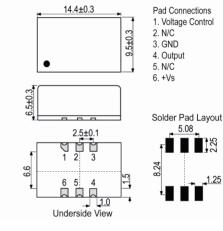
Output Details

 Output Compatability 	HCMOS
 Output Load 	15pF
Rise and Fall time	8ns max
Duty Cycle	45/55%

 Output Low (@ Vs=3.3V, load=15pF): 0.4V max Output High (@ Vs=3.3V, load=15pF): 2.4V min



Outline (mm)



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Noise Parameters

- Phase Noise (@ 10MHz typ):
 - -100dBc/Hz @ 10Hz
 - -130dBc/Hz @ 100Hz
 - -145dBc/Hz @ 1kHz
 - -150dBc/Hz @ 10kHz
 - -150dBc/Hz @ 100kHz
 - -155dBc/Hz @ 1MHz

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 Type: Bulk	Loose in bulk pack
Pack Size	1

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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