

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Description

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

■ Model IQOV-162-3

Model Issue number2

Frequency Parameters

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

Ageing ±5ppb max per day, ±500ppb

max per year

 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 over temperature, 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.

 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.

 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

 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

Electrical Parameters

■ Supply Voltage 3.3V ±5%

Current Draw:

Warm up: 600mA max

Steady state (@ 25°C): 300mA max

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

Frequency Adjustment

Pulling ±3ppm to ±8ppm
 Control Voltage 1.65V ±1.65V
 Input Impedence 100kΩ min

Linearity: ±10% maxSlope: Positive

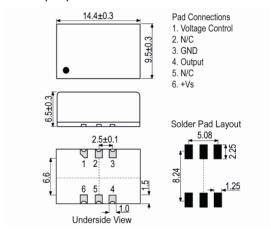
Output Details

Output Compatability HCMOS
 Drive Capability 15pF
 Rise and Fall Time 8.0ns 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)



Sales Office Contact Details:

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Part No. + Packaging: LFOCXO063802Bulk

Noise Parameters

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

Environmental Parameters

- Operable Temperature Range: -40 to 85°C
- Storage Temperature Range: -55 to 105°C
- ESD Level:

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

- 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

Manufacturing Details

Maximum Reflow Temperature: 260°C (30secs max)

Compliance

■ RoHS Status (2011/65/EU) Compliant
■ REACh Status Compliant

MSL Rating (JDEC-STD-033): 2

Packaging Details

■ Pack Style: Bulk Loose in bulk pack

Pack Size: 1

Alternative packing option available

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