



## Description

- Voltage controlled crystal oscillator in a ceramic package with a hermetically sealed metal lid
- Model IQXV-51
- Model Issue number 2

## Frequency Parameters

- Frequency 44.7360MHz
- Frequency Stability  $\pm 25.00\text{ppm}$
- Operating Temperature Range 0.00 to 70.00°C
- Ageing Ageing  $\pm 3\text{ppm max (@ } 25^\circ\text{C)}$

## Electrical Parameters

- Supply Voltage 3.3V  $\pm 5\%$
- Current Draw 25.000mA

## Frequency Adjustment

- Pulling  $\pm 100\text{ppm min}$
- Control Voltage 1.65V  $\pm 1.35\text{V}$
- Input Impedance 100k $\Omega$  min
- Linearity:  $\pm 10\%$  max

## Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns max
- Duty Cycle 45/55%
- VoH:  $>90\%$  of Vs
- VoL:  $<10\%$  of Vs
- Start Up Time: 10ms max

## Output Control

- Standby Operation:  
Logic '1' ( $>70\%$  Vs) to pad 2 enables oscillator output  
Logic '0' ( $<30\%$  Vs) to pad 2 disables oscillator output: when disabled the oscillator output goes to the high impedance state  
No connection pad 2 enables oscillator output

## Noise Parameters

- Period Jitter (pk-pk): 100ps max
- Period Jitter (one sigma): 25ps max

## Environmental Parameters

- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$
- Drop: 1.2m drop (3 times) onto a hard surface
- Vibration: 1.5mm amplitude, 10-55-10Hz, full sine wave, 2mins in 3 mutually perpendicular planes, duration 2hrs in each plane

## Compliance

- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

## Packaging Details

- Pack Style: Bulk Loose in bulk pack
- Pack Size: 1



## Outline (mm)



## Typical Phase Noise Plot @ 77.76MHz



## Sales Office Contact Details:

UK: +44 (0)1460 270200  
Germany: 0800 1808 443

France: 0800 901 383  
USA: +1.760.318.2824

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)



## VCXO Specification

Part No. + Packaging: *LFVCXO067636Bulk*

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- *Alternative packing option available*

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