


**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 13.8240MHz
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Ageing Ageing  $\pm 3\text{ppm max (@ } 25^\circ\text{C)}$

**Electrical Parameters**

- Supply Voltage  $3.3\text{V } \pm 5\%$
- Current Draw  $10.000\text{mA}$

**Frequency Adjustment**

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

**Output Details**

- Output Compatibility HCMOS
- Drive Capability  $15\text{pF max}$
- Rise and Fall Time  $10.0\text{ns max}$
- Duty Cycle  $45/55\%$
- VoH:  $>90\%$  of Vs
- VoL:  $<10\%$  of Vs
- Start Up Time:  $10\text{ms max}$

**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):  $100\text{ps max}$
- Period Jitter (one sigma):  $25\text{ps max}$

**Environmental Parameters**

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

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## VCXO Specification

Part No. + Packaging: *LFVCXO067529Bulk*

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- *Alternative packing option available*

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