



### 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 51.840MHz
- 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  $25.000\text{mA}$

### 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  $5.0\text{ns max}$
- 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

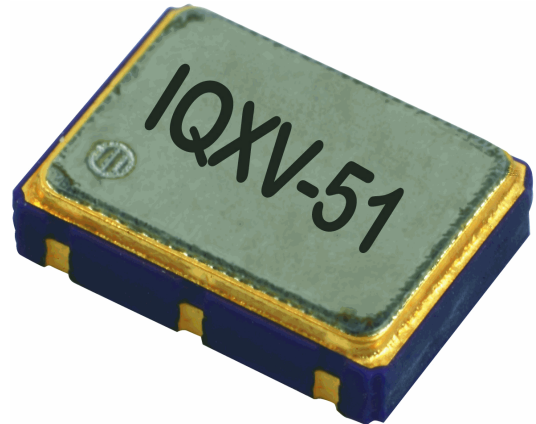
- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$
- Drop:  $1.2\text{m drop (3 times)}$  onto a hard surface
- Vibration:  $1.5\text{mm amplitude, } 10\text{-}55\text{-}10\text{Hz, full sine wave, } 2\text{mins}$  in 3 mutually perpendicular planes, duration 2hrs in each plane

### Compliance

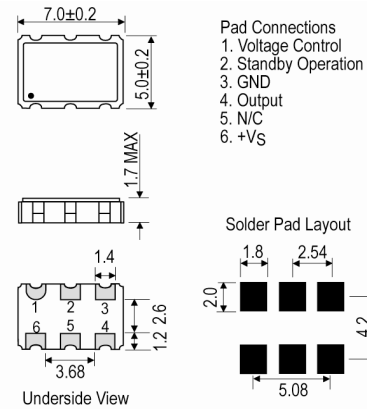
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

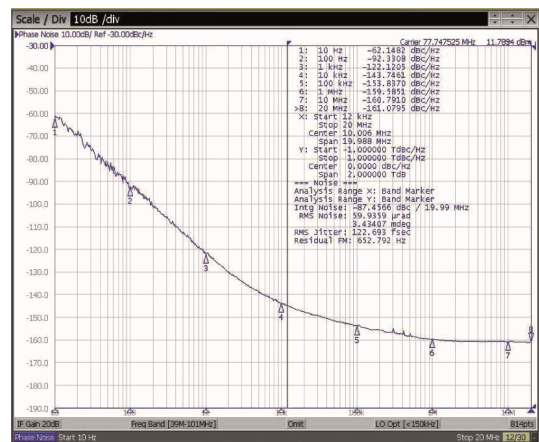
- Pack Style: Bulk Loose in bulk pack
- Pack Size: 1



### Outline (mm)



### Typical Phase Noise Plot @ 77.76MHz



### Sales Office Contact Details:

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## VCXO Specification

Part No. + Packaging: *LFVCXO067655Bulk*

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- *Alternative packing option available*

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