

## Customer Part:



### 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 10.70MHz
- 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

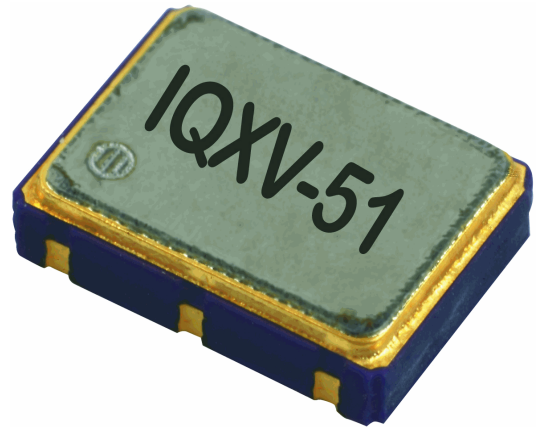
- Period Jitter (pk-pk):  $100\text{ps max}$
- Period Jitter (one sigma):  $25\text{ps max}$

### Environmental Parameters

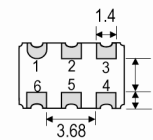
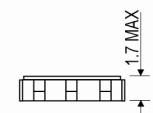
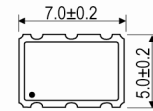
- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$
- Drop:  $1.2\text{m}$  drop (3 times) onto a hard surface
- Vibration:  $1.5\text{mm}$  amplitude,  $10\text{-}55\text{-}10\text{Hz}$ , full sine wave,  $2\text{mins}$  in 3 mutually perpendicular planes, duration  $2\text{hrs}$  in each plane

### Compliance

- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



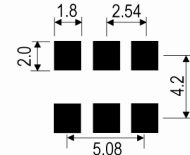
### Outline (mm)



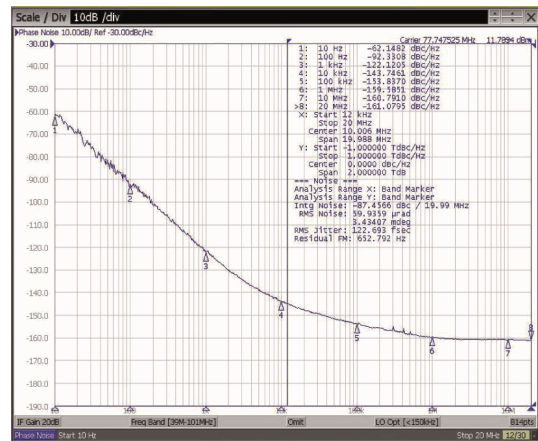
Underside View

- Pad Connections
1. Voltage Control
  2. Standby Operation
  3. GND
  4. Output
  5. N/C
  6. +Vs

### Solder Pad Layout



### 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)

**Customer Part:**

**Packaging Details**

- Pack Style: Bulk      Loose in bulk pack  
Pack Size: 1
- *Alternative packing option available*

---

**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)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [VCXO Oscillators](#) category:*

*Click to view products by [IQD](#) manufacturer:*

Other Similar products are found below :

[3808AI-DF-33NG-80.0000](#) [SIT3808AI-CF-33EM-50.000000X](#) [603281](#) [YNETHE125](#) [FRSONT019](#) [SiT3701AC-43-33C-10.00000X](#)  
[315LB3I1250T](#) [CVSS-945-125.000](#) [VX-501-0245-160M0](#) [CVHD-957-24.576](#) [CVHD-950-122.880](#) [CVHD-950-80.000](#) [CVHD-950X-100.000](#)  
[CVPD-920-100.000](#) [ASG-P-V-A-1.000GHZ](#) [ECXV-P37C2M-640.000](#) [CVHD-957-22.57920](#) [ECXV-P37C2N-155.520](#) [ECXV-P37C2N-](#)  
[56.000](#) [ECXV-P37C2N-184.320](#) [ECXV-P37C2N-155.000](#) [ECXV-P35C2N-155.520](#) [LFVCXO067515Bulk](#) [ASG-D-V-A-1.000GHZ](#) [ASG-D-](#)  
[V-A-491.520MHZ](#) [CVHD-950-74.25](#) [CVPD-920-74.25](#) [ABLNO-V-92.160MHZ](#) [ABLNO-V-120.000MHZ](#) [ABLNO-V-80.000MHZ](#) [ABLJO-](#)  
[V-100.000MHZ](#) [ABLJO-V-120.000MHZ](#) [ABLJO-V-122.880MHZ](#) [ABLJO-V-150.000MHZ](#) [ABLJO-V-155.520MHZ](#) [ABLJO-V-160.000MHZ](#)  
[ABLJO-V-200.000MHZ](#) [ABLJO-V-200.000MHZ-T](#) [ABLJO-V-96.000MHZ](#) [ABLNO-V-100.000MHZ](#) [ABLNO-V-100.000MHZ-T2](#) [ABLNO-](#)  
[V-120.000MHZ-T2](#) [ABLNO-V-122.880MHZ](#) [ABLNO-V-125.000MHZ](#) [ABLNO-V-156.250MHZ](#) [ABLNO-V-96.000MHZ](#) [ABLNO-V-](#)  
[96.000MHZ-T2](#) [ABLNO-V-104.000MHZ](#) [ABLNO-V-125.000MHZ-T2](#) [ABLNO-V-155.520MHZ](#)