


**Description**

- Voltage Controlled Crystal Oscillator (VCXO) in a 14-pin DIL hermetically sealed package
- Model IQVCXO-161
- Model Issue number 10

**Frequency Parameters**

- Frequency 39.0MHz
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range  $-20.00$  to  $70.00^\circ\text{C}$
- Modulation Bandwidth:  $>15\text{kHz}$

**Electrical Parameters**

- Supply Voltage  $5.0\text{V} \pm 0.25\text{V}$
- Current Draw  $30.00\text{mA}$

**Frequency Adjustment**

- Pulling  $\pm 100\text{ppm min}$
- Control Voltage  $2.5\text{V} \pm 2.0\text{V}$

**Output Details**

- Output Compatibility HCMOS/LSTTL
- Drive Capability  $15\text{pF}/10\text{LSTTL}$
- Rise and Fall Time  $5.0\text{ns max}$
- Duty Cycle  $40/60\%$

**Environmental Parameters**

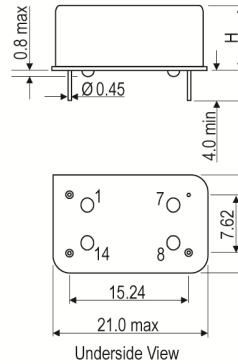
- Storage Temperature Range:  $-40$  to  $85^\circ\text{C}$
- Shock:  $981\text{m/s}^2$ ,  $6\text{ms}$ , 3 times in each of 3 mutually perpendicular planes
- Vibration:  $0.76\text{mm}$  amplitude,  $10\text{Hz}$ - $55\text{Hz}$ , sweep  $1\text{min}$  in 3 mutually perpendicular planes, duration  $2\text{hrs}$  each plane
- Solderability: MIL-STD-202E, Method 208C
- Rapid Change of Temperature over Operating Temperature Range: 10 cycles
- Terminal Strength:  $0.91\text{kg max.}$  force perpendicular to top and bottom
- Hermetic Seal: Not to exceed  $1 \times 10^{-8}\text{mBar}$  litres of Helium leakage

**Compliance**

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

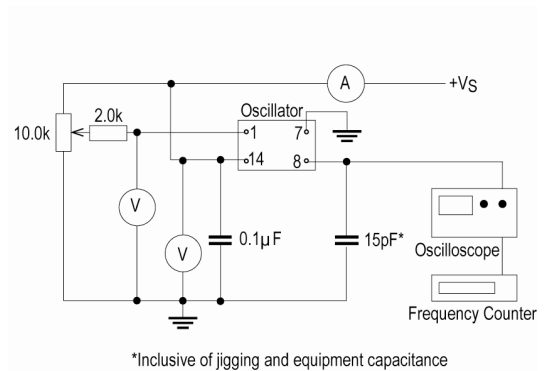
**Packaging Details**

- Pack Style: Bulk Loose in bulk pack
- Pack Size: 25
- *Alternative packing option available*

**Outline (mm)**


Pin Connections  
 1. Voltage Control  
 7. GND  
 8. Output  
 14. +Vs

Frequency Range	Height (H)
1.0 to $< 30.0\text{MHz}$	5.1 max
30.0 to $90.0\text{MHz}$	8.0 max

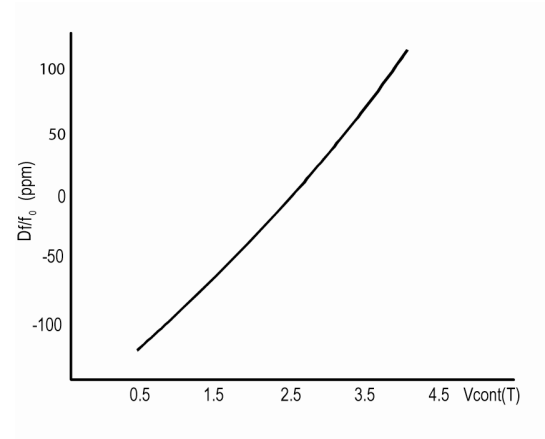
**Test Circuit**

**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)

**Typical Voltage Control Curve @ 25°C & 20.0MHz**



---

**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)