



## Description

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

## Frequency Parameters

- Frequency 38.90MHz
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range 0.00 to 70.00°C
- Modulation Bandwidth: >15kHz

## Electrical Parameters

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

## Frequency Adjustment

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

## Output Details

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

## Environmental Parameters

- Storage Temperature Range: -40 to 85°C
- Shock: 981m/s<sup>2</sup>, 6ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: 0.76mm amplitude, 10Hz-55Hz, sweep 1min in 3 mutually perpendicular planes, duration 2hrs each plane
- Solderability: MIL-STD-202E, Method 208C
- Rapid Change of Temperature over Operating Temperature Range: 10 cycles
- Terminal Strength: 0.91kg max. force perpendicular to top and bottom
- Hermetic Seal: Not to exceed 1x10<sup>-8</sup>mBar litres of Helium leakage

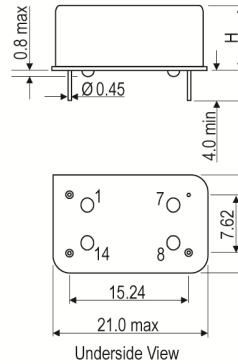
## Compliance

- 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*

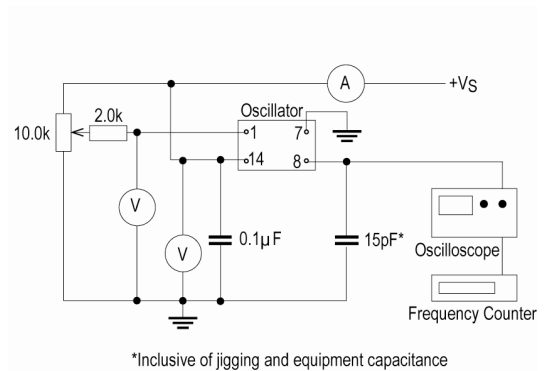
## Outline (mm)



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

Frequency Range	Height (H)
1.0 to < 30.0MHz	5.1 max
30.0 to 90.0MHz	8.0 max

## Test Circuit



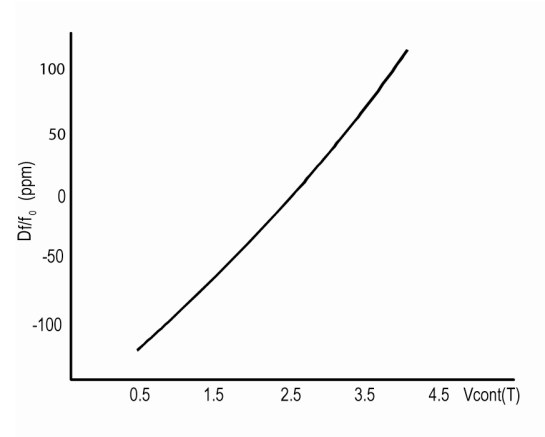
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**Typical Voltage Control Curve @ 25°C & 20.0MHz**



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