



Description

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

Frequency Parameters

- Frequency 40.4990MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Modulation Bandwidth: $>15\text{kHz}$

Electrical Parameters

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

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 5.0ns max
- Duty Cycle $40/60\%$

Environmental Parameters

- Storage Temperature Range: -40 to 85°C
- Shock: 981m/s^2 , 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 $1 \times 10^{-8}\text{mBar}$ litres of Helium leakage

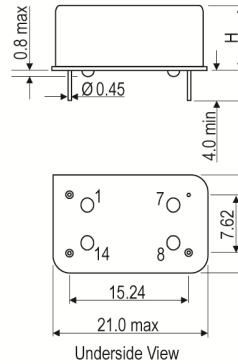
Compliance

- 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*

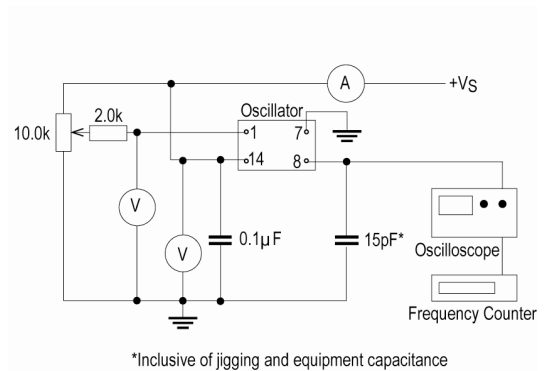
Outline (mm)



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 90.0MHz	8.0 max

Test Circuit



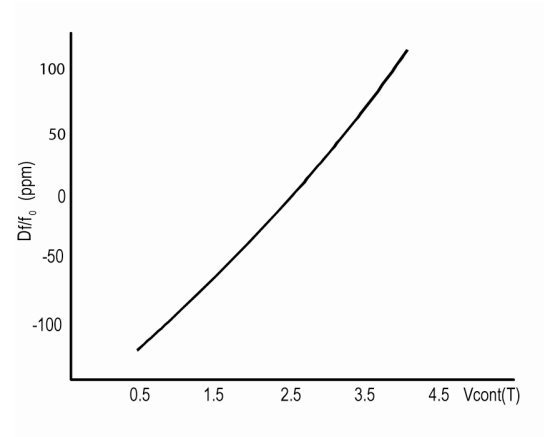
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Typical Voltage Control Curve @ 25°C & 20.0MHz



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