


Description

- Voltage controlled crystal oscillator in a ceramic package with a hermetically sealed metal lid
- Model IQXV-41
- Model Issue number 1

Frequency Parameters

- Frequency 25.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing (@ 25°C): $\pm 3\text{ppm max}$

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 5\%$
- Current Draw 10.00mA

Frequency Adjustment

- Pulling $\pm 50\text{ppm min}$
- Control Voltage $1.65\text{V} \pm 1.65\text{V}$
- Input Impedence $100\text{k}\Omega \text{ min}$
- Linearity: 10% max

Output Details

- Output Compatability HCMOS
- Drive Capability 15pF max
- Rise and Fall Time 10.0ns max
- Duty Cycle $45/55\%$
- Start Up Time: 10ms max

Output Levels

- VoH: $>90\%$ of V_s
- VoL: $<10\%$ of V_s

Noise Parameters

- Period Jitter (pk-pk): 100ps max
- Period Jitter (one sigma): 25ps max

Environmental Parameters

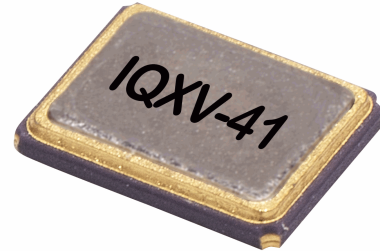
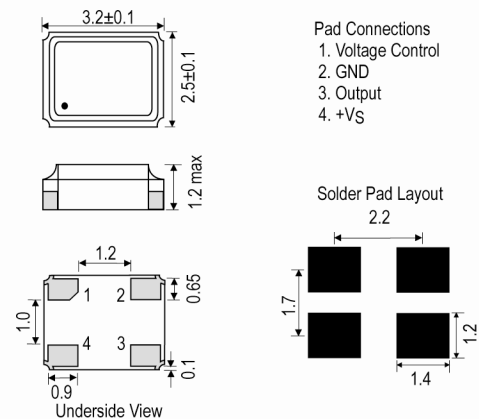
- Storage Temperature Range: -55 to 125°C
- Drop: 1.2m drop (3 times) onto a hard surface
- Vibration: 1.5mm amplitude, $10\text{-}55\text{-}10\text{Hz}$, full sine wave, 2mins in 3 mutually perpendicular planes, duration 2hrs in each plane

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
- *Alternative packing option available*


Outline (mm)

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