



ISSUE 1; September 2014 - RoHS 2011/65/EU

Description

- Voltage controlled crystal oscillator in a ceramic package with a hermetically sealed metal lid

Frequency Parameters

- Frequency 1.0MHz to 60.0MHz
- Frequency Stability $\pm 20.00\text{ppm}$ to $\pm 50.00\text{ppm}$
- Ageing (@ 25°C): $\pm 3\text{ppm}$ max

Electrical Parameters

- Supply Voltage 2.5V $\pm 5\%$

Frequency Adjustment

- Pulling $\pm 100\text{ppm}$ min
- Control Voltage 1.25V $\pm 1.05\text{V}$
- Input Impedence 2M Ω min
- Linearity: $\pm 10\%$ max

Operating Temperature Ranges

- 0 to 70°C
- -40 to 85°C

Output Details

- Output Compatability HCMOS
- Drive Capability 15pF max
- Start Up Time: 10ms 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

Output Levels

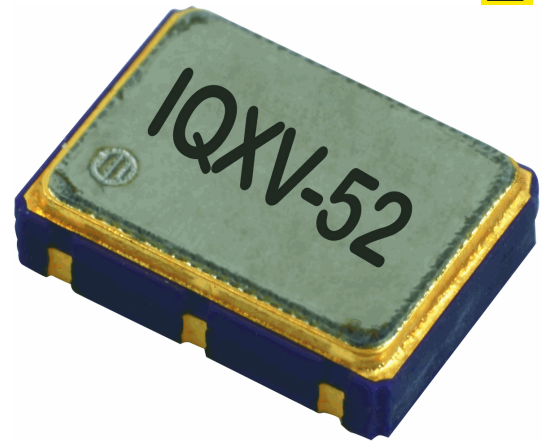
- VoH: >90% of Vs
VoL: <10% of Vs

Noise Parameters

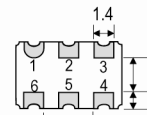
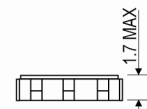
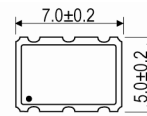
- Period Jitter (pk-pk): 100ps max
- Period Jitter (one sigma): 25ps max

Environmental Parameters

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



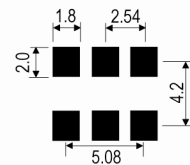
Outline (mm)



Underside View

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

Solder Pad Layout



Sales Office Contact Details:

UK: +44 (0)1460 270200

Germany: +49 (0) 30 408 192 300

France: +33 (0)5 34 50 91 18

USA: +1 408.273.4530

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

