



Description

- Oven controlled crystal oscillator (OCXO) with voltage control
- Model IQOV-164-4
- Model Issue number 2

Frequency Parameters

- Frequency 12.80MHz
- Frequency Tolerance @ 25°C ±50.00ppb
- Frequency Stability ±1.00ppb
- Operating Temperature Range -30.00 to 75.00°C
- Ageing ±0.5ppb max per day, ±50ppb max per year
- Supply Voltage Variation (measurement referenced to frequency observed with TA=25°C, Vs varied from 3.13V to 3.47V, VC=1.65V and load=50Ω): ±0.5ppb max
- Ageing: Vs, VC, TA constant measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V, load=50Ω and after 30 days of operation.
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and load=50Ω): ±0.5ppb max
- Short Term Stability - Allan Variance (temperature stability, no EMI/EMC or other interference test after power for 1hr ref. to 25°C; 1s, using PN9000 equipment): 0.01ppb max / 1sec
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and after 15 minutes of operation, within 30 days after ex-works): ±50ppb
- Frequency Stability: TA varied across the operating temperature range, measurement referenced to frequency observed with $f_{ref} = (f_{max} + f_{min}) / 2$, Vs=3.3V, VC=1.65V, load=50Ω and temperature variable speed less than 2°C per minute.

Electrical Parameters

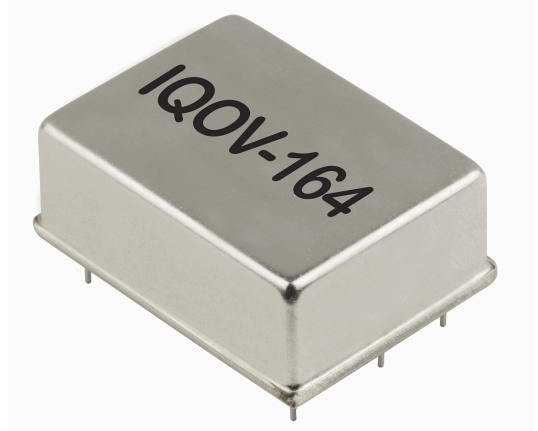
- Supply Voltage 3.3V
- Supply Voltage Tolerance ±5%
- Current Consumption:
Warm up: 1400mA max
Steady state (@ 25°C): 500mA max

Frequency Adjustment

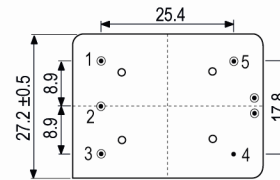
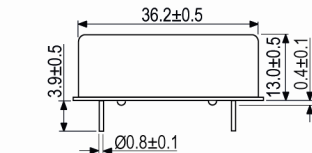
- Pulling ±0.7ppm to ±1ppm
- Control Voltage Details 1.65V ±1.65V
- Linearity: ±10% max
- Slope: Positive
- Input Impedance: 100kΩ min

Output Details

- Output Compatability Sine
- Output Load 50Ω
- Output Amplitude: 6dBm min, 10dBm max



Outline (mm)



Underside View

- Pin Connections
1. +Vs
 2. N/C
 3. Voltage Control
 4. GND
 5. Output

Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: +49 (0)7264 9145-62

France: +33 (0)5 34 50 91 18
USA: +1 408.273.4530

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com



Noise Parameters

- Phase Noise (@ 10MHz typ):
 - 125dBc/Hz @ 10Hz
 - 145dBc/Hz @ 100Hz
 - 150dBc/Hz @ 1kHz
 - 155dBc/Hz @ 10kHz
 - 155dBc/Hz @ 100kHz
 - 155dBc/Hz @ 1MHz
- Harmonic Suppression: -30dBc max
- Spurious Suppression: -60dBc max

Environmental Parameters

- Shock: IEC 60068-2-27, Test Ea: 50G, 11ms duration, 1/2 sine wave, 3 times in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-06, Test Fc: 10Hz-500Hz, 0.75mm displacement, 10G acceleration, one cycle per 30mins, 3 times in each of 3 mutually perpendicular planes, test 2hrs
- Storage Temperature Range: -55 to 105°C
- Operable Temperature Range: -40 to 85°C
- ESD Level:
 - HBM, Class 2: 2000V to 4000V, JEDEC JS-001-2010
 - Machine Model, Class B: 200V to 400V, JEDEC JS-001-2010

Manufacturing Details

- Maximum Reflow Temperature: 260°C (30secs max)

Compliance

- | | |
|----------------|-----------|
| ■ RoHS Status | Compliant |
| ■ REACH Status | Compliant |

Packaging

- | | |
|-------------------|--------------------|
| ■ Pack Type: Bulk | Loose in bulk pack |
| ■ Pack Size | 1 |
- Alternative packing option available

This document is correct at the time of printing; please contact your local office for the latest version.

Sales Office Contact Details:

UK: +44 (0)1460 270200

Germany: +49 (0)7264 9145-62

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

USA: +1 408.273.4530

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [iqd manufacturer](#):

Other Similar products are found below :

[LFX TAL071761CUTT](#) [LFMCXO063767BULK](#) [LFMCXO063773BULK](#) [LFOCXO063802BULK](#) [LFOCXO063809BULK](#)
[LFTCXO063709BULK](#) [LFTCXO063710BULK](#) [LFTCXO063779BULK](#) [LFTCXO070028Cutt](#) [LFTVXO063701BULK](#)
[LFTVXO063702BULK](#) [LFTVXO063703BULK](#) [LFTVXO063707BULK](#) [LFTVXO063791BULK](#) [LFX TAL003156](#) [LFMCXO063766BULK](#)
[LFMCXO063771BULK](#) [LFOCXO063816BULK](#) [LFTCXO063713BULK](#) [LFTCXO063714BULK](#) [LFTCXO063716BULK](#)
[LFTVXO063704BULK](#) [LFTVXO063705BULK](#) [LFTVXO063706BULK](#) [LFTVXO063789BULK](#) [LFTVXO063790BULK](#) [LFX TAL003113](#)
[LFOCXO063809](#) [LFSPXO009581](#) [LFTCXO063784](#) [LFTVXO063786](#) [LFSPXO009686Bulk](#) [LFRBXO059244Bulk](#) [LFTVXO075802Cutt](#)
[LFOCXO067293Bulk](#) [LFTCXO075792Cutt](#) [LFMCXO064079BULK](#) [LFSPXO071189](#) [LFOCXO067293](#) [LFX TAL012312BULK](#)
[LFTCXO063780BULK](#) [LFSPXO056269CUTT](#) [LFOCXO063803BULK](#) [LFSPXO009592CUTT](#) [LFOCXO065520Bulk](#) [LFMISC070550Bulk](#)
[LFSPXO025494Cutt](#) [LFMCXO064080BULK](#) [LFOCXO063804BULK](#) [LFSPXO019884BULK](#)