

Customer Part:

Description

- LVPECL output crystal oscillator using a high frequency fundamental crystal to give very low jitter. Hermetically sealed ceramic package with a seam sealed metal lid.
- Model IQXO-624
- Model Issue number 2

Frequency Parameters

- Frequency 100.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 105.00°C
- Ageing $\pm 3\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 5\%$
- Current Draw 50.000mA

Output Details

- Output Compatibility LVPECL
- Rise and Fall Time 0.5ns max
- Duty Cycle $45/55\%$
- Output Voltage Levels:
Output Low (VOL): 1.680V max
Output High (VOH): 2.275V min

Output Control

- Standby Operation:
Logic '1' ($70\% V_s$ min) to pad 1 enables oscillator output.
Logic '0' ($30\% V_s$ max) to pad 1 disables oscillator output.
No connection to pad 1 enables oscillator output due to internal pull-up resistor.
- Standby Current: $10\mu\text{A}$ max
- Start-up Time: 10ms max

Noise Parameters

- Phase Jitter (12kHz to 20MHz): 1ps rms max
Phase Jitter (12kHz to 20MHz): 0.171ps rms typ @ 100MHz

Environmental Parameters

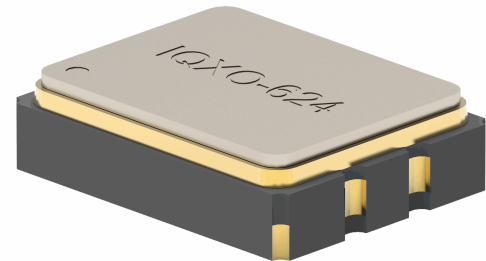
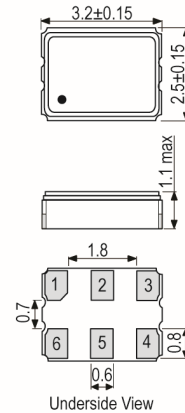
- Storage Temperature Range: -55 to 125°C
- Shock: 1500G , 0.5ms , 3 times for each surface, total 18 times.
- Vibration: Freq. range: $20\sim 2000\text{Hz}$, peak to peak amplitude: 1.52mm , peak acceleration: 20G (196m/s^2), 3 direction(X, Y,Z), each cycle: 20min , 4 cycles for each direction.

Manufacturing Details

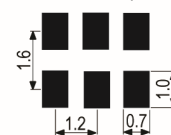
- RoHS Terminations Au over Ni
- RoHS Reflow Temp 260°C max for 10sec max

Compliance

- RoHS Status (2015/863/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable


Outline (mm)

Pad Connections

1. Standby Operation
2. N/C
3. GND
4. Output +
5. Output -
6. +Vs

Solder Pad Layout

Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: 0800 1808 443

France: 0800 901 383
USA: +1.760.318.2824

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



Customer Part:

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 3,000
- *Alternative packing option available*

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