

Customer Part:

Description

- 32.768kHz miniature 2 x 1.6mm crystal oscillator in an hermetically sealed ceramic package with a seam sealed metal lid.
- Model IQXO-403
- Model Issue number 4

Frequency Parameters

- Frequency 32.7680kHz
- Frequency Stability $\pm 25.00\text{ppm}$
- Operating Temperature Range -20.00 to 70.00°C
- Ageing $\pm 3\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Supply Voltage $2.5\text{V} \pm 5\%$
- Current Draw 0.200mA
- Start-up Time: 0.3ms typ, 10ms max

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF
- Rise and Fall Time 100.0ns max
- Duty Cycle $40/60\%$

Output Control

- Standby Operation:
Logic '1' ($\geq 70\%V_S$) to pad 1 enables oscillator output
Logic '0' ($\leq 30\%V_S$) to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state.
No connection to pad 1 enables oscillator output.
- Standby Current (pad 1 at logic '0'):
 $10\mu\text{A}$ max @ $-40+85^\circ\text{C}$
 $20\mu\text{A}$ max @ $-40+125^\circ\text{C}$

Environmental Parameters

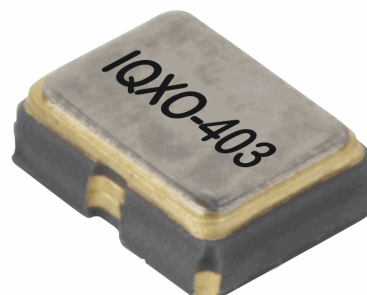
- Storage Temperature Range: -55 to 125°C
- Shock : 1500G , 0.5ms , 3 times for each surface, total 18 times.
- Vibration: Frequency range: $20\sim 2000\text{Hz}$, peak to peak amplitude 1.52mm , peak acceleration: 20G (196m/s^2), 3 directions (X, Y, Z), each cycle: 20min , 4 cycles for each direction.

Manufacturing Details

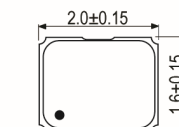
- RoHS Terminations Au over Ni
- RoHS Reflow Temp 260°C max for 10s max

Compliance

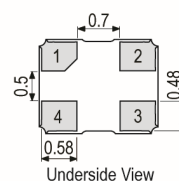
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



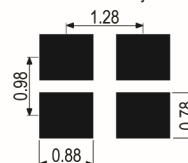
Outline (mm)



- Pad Connections
- Standby Operation
 - GND
 - Output
 - +Vs



Solder Pad Layout



Sales Office Contact Details:

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Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com



Customer Part:

Packaging Details

- Tape & reel in accordance with EIA-481
Quantities below the standard reel size to be supplied on cut tape
Standard Pack Quantity: 3,000

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