



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Description

- 32.768kHz miniature 2 x 1.6mm crystal oscillator in an hermetically sealed ceramic package with a seam sealed metal lid.
- Model IQXO-402
- Model Issue number 2

Frequency Parameters

- Frequency 32.7680kHz
- Frequency Stability $\pm 30.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 3\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 10\%$
- Current Draw 0.200mA

Output Details

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

Output Control

- E/D 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

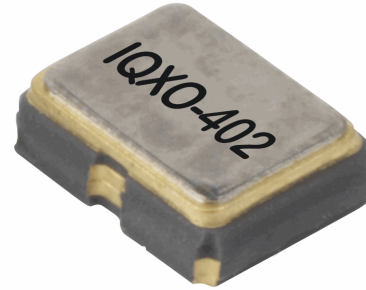
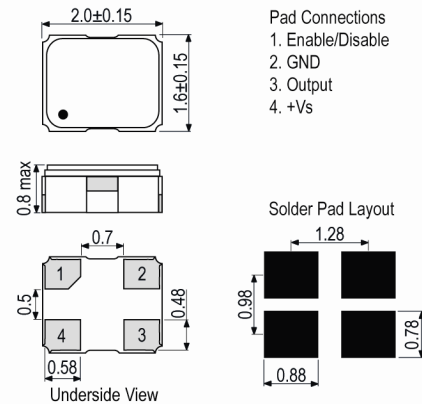
- RoHS Terminations Au over Ni
- RoHS Reflow Temp 260°C max for 10s max

Compliance

- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

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


Outline (mm)

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