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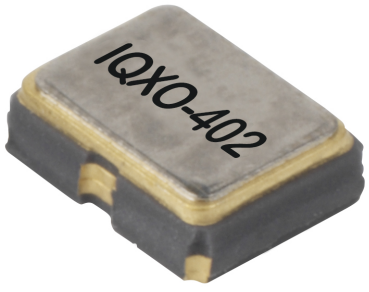
Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPXO073700Reel

Wurth Part No. ***830207370001***

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: 3



Frequency Parameters

- Frequency: 32.7680kHz
- Frequency Stability: ±30.00ppm
- Operating Temperature Range: -40.00 to 85.00°C
- Ageing: ±3ppm max per year @ 25°C

Electrical Parameters

- Supply Voltage: 3.3V ±10%
- Current Draw: 0.200mA

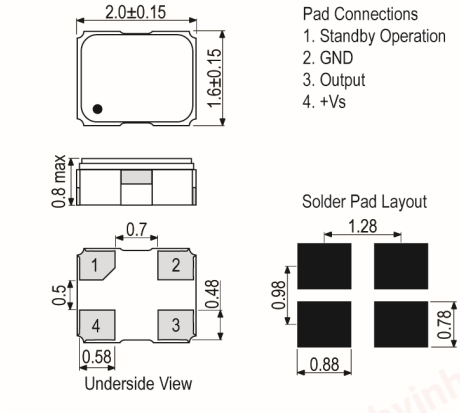
Output Details

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

Output Control

- Standby Operation:
  Logic '1' (≥70%Vs) to pad 1 enables oscillator output
  Logic '0' (≤30%VS) 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:
  10µA max @ -40 to 85°C
  20µA max @ -40 to 125°C
- Start-up Time: 10ms max
  0.3ms typ to 90% of final amplitude (under ideal conditions @ 25°C)

Outline (mm)



Environmental Parameters

- Storage Temperature Range: –55 to 125°C
- Shock : 1500G, 0.5ms, 3 times for each surface, total 18 times.
- Vibration: Frequency range: 20~2000Hz, peak to peak amplitude 1.52mm, peak acceleration:20G (196m/s2), 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

CONTACT INFORMATION:
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Packaging Details

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

U S E F U L L I N K S

Toolbox:
www.we-online.com/toolbox

Product Catalog:
www.we-online.com/products

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