



Description

- Tight stability, hermetically sealed oscillator in a 3.2 x 2.5mm SMD package.
- Model IQXO-430
- Model Issue number 1

Frequency Parameters

- Frequency 44.0MHz
- Frequency Stability $\pm 10.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Frequency Stability is inclusive of tolerance @ 25°C , operating temperature range, supply voltage variation, load variation and ageing in 1st year @ 25°C .

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 10\%$
- Current Draw 7.000mA

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF
- Rise and Fall Time 5.0ns max
- Duty Cycle $45/55\%$

Output Control

- Logic '1' ($>70\%V_s$) to pad 1 enables oscillator output. Logic '0' ($<30\%V_s$) 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: $10\mu\text{A max}$

Output Levels

- VoH: $90\%V_s \text{ min}$
- VoL: $10\%V_s \text{ max}$

Noise Parameters

- Period Jitter (RMS 1σ): 3ps typ

Environmental Parameters

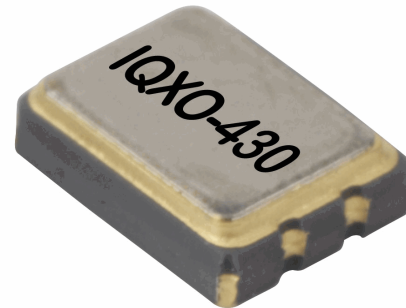
- Storage Temperature Range: -40 to 85°C
- Drop: 100cm drop (3 times) onto hard wooden board.
- Vibration: Frequency 10Hz - 55Hz , amplitude 1.5mm (10Hz - 36Hz), 4G (36Hz - 55Hz), sweep time 1min/oct , duration 2hrs in 3 mutually perpendicular planes.

Manufacturing Details

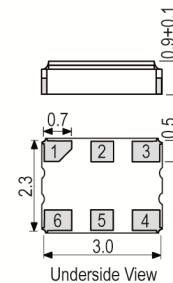
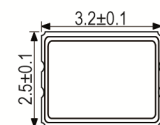
- Maximum Process Temperature: 260°C (10secs max)
- RoHS Terminations Au over Ni, W base
- RoHS Reflow Temp 260°C max for 10secs max

Compliance

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



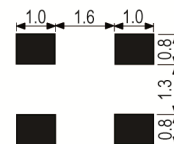
Outline (mm)



Pad Connections

1. E/D
2. N/C
3. GND
4. Output
5. N/C
6. $+V_s$

Solder pad layout



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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*

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