



Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPXO083325Reel

Würth Part No. 830208332501



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-623
- Model Issue number 2
- Note: Operating temperature ranges -40 to 105°C and -40 to 125°C are intended for industrial use and not for safety critical applications such as automotive. Please contact IQD for alternative options.

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 2.5V $\pm 5\%$
- 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): 1.095V max
Output High (VOH): 1.475V 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 μA max
- Start-up Time: 10ms max

Noise Parameters

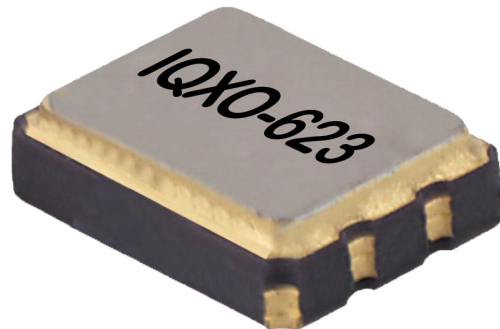
- Phase Jitter (12kHz to 20MHz): 1ps rms max
Phase Jitter (12kHz to 20MHz): 0.171ps rms typ @ 100MHz

Environmental Parameters

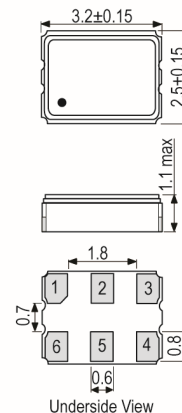
- Storage Temperature Range: -55 to 125°C
- Shock: 1500G, 0.5ms, 3 times for each surface, total 18 times.
- Vibration: Freq. range: 20~2000Hz, peak to peak amplitude: 1.52mm, peak acceleration: 20G (196m/s²), 3 direction (X, Y, Z), each cycle: 20min, 4 cycles for each direction.

Manufacturing Details

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



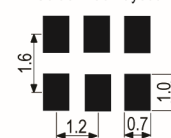
Outline (mm)



Pad Connections

- Standby Operation
- N/C
- GND
- Output +
- Output -
- +Vs

Solder Pad Layout



CONTACT INFORMATION:

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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*

USEFUL LINKS

Toolbox:

www.we-online.com/toolbox

Product Catalog:

www.we-online.com/products

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