

Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPXO083322RL3K Wurth Part No. 830208332209





Description

 LVDS output crystal oscillator in a hermetically sealed ceramic package with a seam sealed metal lid.

■ Model IQXO-618-25

■ 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
 Frequency Stability
 Operating Temperature Range
 -40.00 to 105.00°C

Ageing ±3ppm max per year at 25°C

Electrical Parameters

■ Supply Voltage 2.5V ±5%
■ Current Draw 50.000mA

Output Details

Output Compatibility
 Drive Capability
 Rise & Fall Time (20 - 80%)
 Duty Cycle
 LVDS
 100Ω
 0.5ns max
 45/55%

 Differential Output Voltage (VOD): 0.247V min, 0.33V typ, 0.454V max

Offset Voltage (VOS): 1.125V min, 1.250V typ, 1.375V max.

Output Voltage Levels: Output Low (VOL): 0.9V min Output High (VOH): 1.6V max

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.

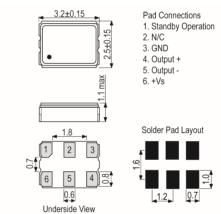
Start-Up Time: 10ms maxStandby Current: 10µA max

Noise Parameters

■ Phase Jitter (12kHz to 20MHz): 1ps rms max



Outline (mm)



CONTACT INFORMATION:

Würth Elektronik eiSos GmbH & Co. KG Max-Eyth-Str. 1, 74638 Waldenburg, Germany Tel: +49(0) 7942 945-0



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Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Drop Test (JIS-C0044): the specimen is measured for frequency before the test. It is then dropped from a height of 100cm min as a free fall object onto a hard wooden plate of thickness 30mm min.
- Vibration (MIL-STD-883F: 2007.3): the specimen is measured for frequency before the test. Test in X,Y and Z axes for the vibration test. Frequency range: 20~2000Hz, peak to peak amplitude: 1.52mm, peak acceleration: 20G, sweep time: 20 minute/axis, pendicular total test time: 4 hours.
- Low Temp Exposure (JIS-C0020): the specimen is measured for frequency before the test. Expose device to -40°C±3°C for 168±6 hours. Measure electrical performance after leaving 1~2 hours at room temperature.
- Ageing Test (JIS-C0021): the specimen is measured for frequency before the test. Expose device to +125°C±3°C for 720±48 hours. Measure electrical performance after leaving 1~2 hours at room temperature.
- High Temperature and Humidity (MIL-STD-883F: 1004.7): the specimen is measured for frequency before the test. Expose device to +85°C±5°C and 85±5% humidity for 168±6 hours. Measure electrical performance after leaving 1~2 hours at room temperature.
- Temperature Cycle Test (MIL-STD-883F: 1010.8): the specimen is measured for frequency before the test. Expose device to 100 cycles of:

Low temp: -55°C±3°C for15±3 min Ramp up to high temp: 2-3 mins High temp:+125°C±3°C for15±3 min Ramp down to low temp: 2-3 mins Measure electrical performance after le

Measure electrical performance after leaving 1~2 hours at room temperature.

RoHS Terminations

RoHS Reflow Temp
 260°C max for 10s max

Compliance

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

Packaging Details

Pack Style: RL3K 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

CONTACT INFORMATION:

Würth Elektronik eiSos GmbH & Co. KG Max-Eyth-Str. 1, 74638 Waldenburg, Germany Tel: +49(0) 7942 945-0

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