Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPXO082147RL3K

Wurth Part No. ***830208214709***

Description

- Standard 2 x 1.6 crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed
- Model IQXO-540
- Model Issue number 2

Frequency Parameters

- Frequency 8.0MHz
- Frequency Stability ±25.00ppm
- Operating Temperature Range -20.00 to 70.00°C
- Ageing ±5ppm

Electrical Parameters

- Supply Voltage 3.3V ±10%
- Current Draw 4.000mA
- Standby Current: 10µA max (pad 1 at logic '0')

Output Details

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

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

Environmental Parameters

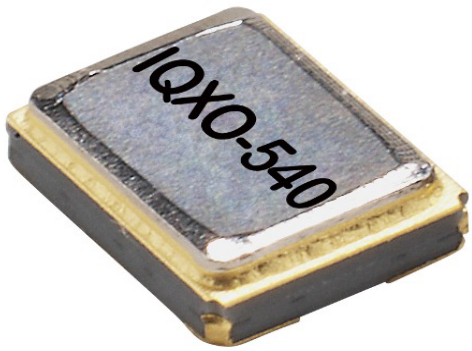
- Impact: Weight of 10G dropped to centre of part from a height of 6mm
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)
- Storage Temperature Range: –40 to 85°C
- RoHS Terminations
- RoHS Reflow Temp 250°C 10S max

Compliance

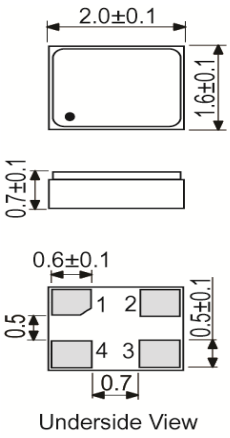
- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: RL3K Tape & reel in accordance with EIA-481-D
  Pack Size: 3,000

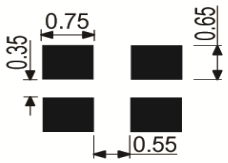


Outline (mm)

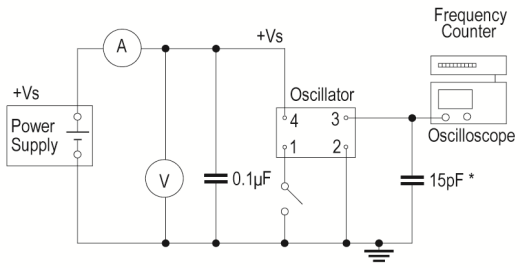


Pad Connections
1. Standby Operation
2. GND
3. Output
4. +Vs

Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

CONTACT INFORMATION:
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- *Alternative packing option available*

U S E F U L L I N K S

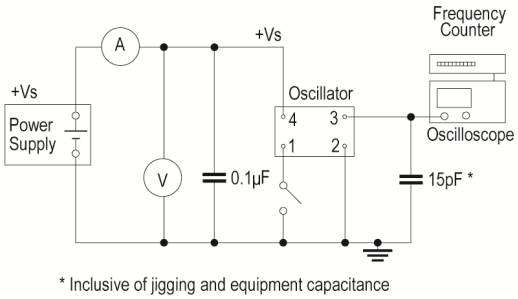
Toolbox:

www.we-online.com/toolbox

Product Catalog:

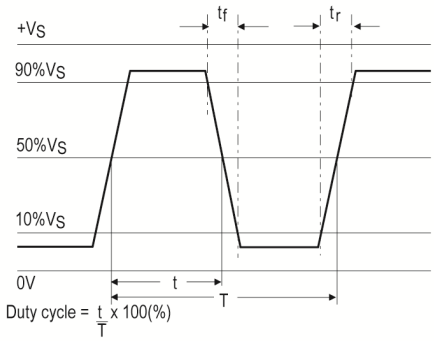
www.we-online.com/products

Test Circuit



* Inclusive of jigging and equipment capacitance

Wave Form



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140816144200 560112110239 7443633300 810912012 830003237 620307124022 64900221122
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782963560 78438335033HT 860080275016 560112110188 636201040300 71206415 714726110106
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