



Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPXO082286RL3K

Würth Part No. 830208228609



Description

- 32.768kHz output crystal oscillator in a ceramic package, hermetically sealed with a seam sealed metal lid
Suitable for real time clock applications
- Model CFPS-104
- Model Issue number 4

Frequency Parameters

- Frequency 32.7680kHz
- Frequency Stability $\pm 100.00\text{ppm}$
- Operating Temperature Range -40.00 to 125.00°C
- Ageing $\pm 3\text{ppm}$ max per year

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 5\%$
- Current Draw 3.500mA

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 50.0ns 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
- Start-up Time: 35ms max
 2ms typ to 90% of final amplitude (under ideal conditions @ 25°C)
- Standby Current: $20\mu\text{A}$ max, $1.7\mu\text{A}$ typ @ 25°C

Environmental Parameters

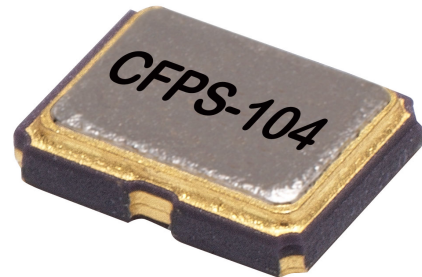
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-883F, Method 2002.4: 1500G , 0.5ms , 3 times in each of 3 mutually perpendicular planes
- Vibration: MIL-STD-883F, Method 2007.3: 20G (20Hz - 2000Hz), 1.52mm amplitude, 20mins in 3 mutually perpendicular planes (total 4hrs)

Compliance

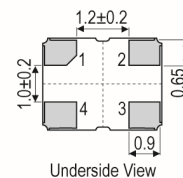
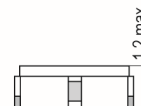
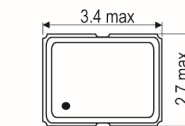
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JEDEC-STD-033): Not Applicable

Packaging Details

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



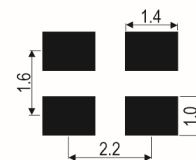
Outline (mm)



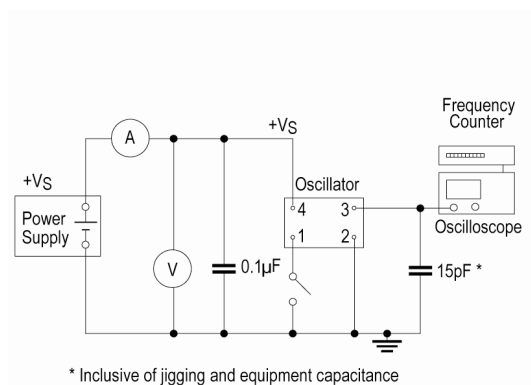
Pad Connections

- Standby Operation
- GND
- Output
- +Vs

Solder Pad Layout



Test Circuit



CONTACT INFORMATION:

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

Email: eiSos@we-online.de
Web: www.we-online.com



Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPXO082286RL3K

Würth Part No. 830208228609



- Alternative packing option available

USEFUL LINKS

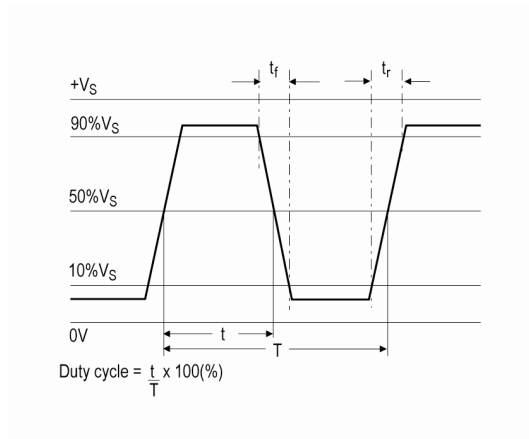
Toolbox:

www.we-online.com/toolbox

Product Catalog:

www.we-online.com/products

Wave Form



CONTACT INFORMATION:

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

Email: eiSos@we-online.de
 Web: www.we-online.com