



## Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPXO082170RL3K

Würth Part No. 830208217009



### Description

- Standard 2 x 1.6 crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed
- Model IQXO-542
- Model Issue number 3

### Frequency Parameters

- Frequency 19.20MHz
- Frequency Stability  $\pm 25.00$ ppm
- Operating Temperature Range -20.00 to 70.00°C
- Ageing  $\pm 5$ ppm

### Electrical Parameters

- Supply Voltage 1.8V  $\pm 10\%$
- Current Draw 3.000mA

### Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns max
- Duty Cycle 45/55%
- Start up Time: 10ms max.  
1.1ms typ to 90% of final amplitude (Under ideal conditions @ 25°C)

### Output Control

- Standby Operation: Logic '1' ( $\geq 70\%V_S$ ) to pad 1 enables oscillator output  
Logic '0' ( $\leq 30\%V_S$ ) 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 $\mu$ A max, 0.6 $\mu$ A typ @ 25°C

### 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

### Compliance

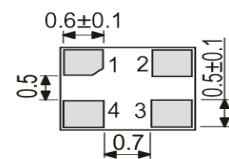
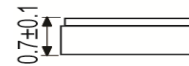
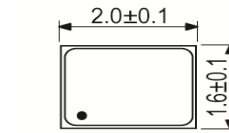
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

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



### Outline (mm)

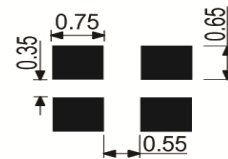


Underside View

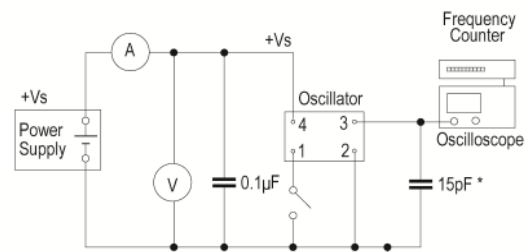
### Pad Connections

- Standby Operation
- GND
- Output
- +Vs

### Solder Pad Layout



### Test Circuit



\* Inclusive of jigging and equipment capacitance

### CONTACT INFORMATION:

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- *Alternative packing option available*

### USEFUL LINKS

Toolbox:

[www.we-online.com/toolbox](http://www.we-online.com/toolbox)

Product Catalog:

[www.we-online.com/products](http://www.we-online.com/products)

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