



## Crystal Clock Oscillator Specification

*IQD Part No. + Packaging: LFSPXO082221Reel*

*Würth Part No. 830208222101*



### Description

- Standard 2.5 x 2.0 oscillator in a ceramic package with a hermetically sealed metal lid.
- Model IQXO-794
- Model Issue number 1

### Frequency Parameters

- Frequency 16.0MHz
- Frequency Stability  $\pm 25.00\text{ppm}$
- Operating Temperature Range  $-20.00$  to  $70.00^\circ\text{C}$
- Ageing  $\pm 3\text{ppm}$  max per year

### Electrical Parameters

- Supply Voltage  $1.8\text{V} \pm 5\%$
- Current Draw  $10.000\text{mA}$

### Output Details

- Output Compatibility HCMOS
- Drive Capability  $15\text{pF}$
- Rise and Fall Time  $10.0\text{ns}$  max
- Duty Cycle 40/60%
- Output Voltage High: 90% of  $V_S$  min  
Output Voltage Low: 10% of  $V_S$  max

### Output Control

- Standby Function (pin1):  
No Connection = Output Enabled  
>70%  $V_S$  = Output Enabled  
<30%  $V_S$  = Output Disabled  
(when disabled output goes to high impedance state)
- Start Up Time: 10ms max

### Noise Parameters

- Jitter (Period pk-pk):  $\pm 80\text{ps}$  typ
- Jitter (Phase 12kHz to 20MHz): 1ps max
- Jitter (Period One Sigma):  $\pm 10\text{ps}$  typ

### Environmental Parameters

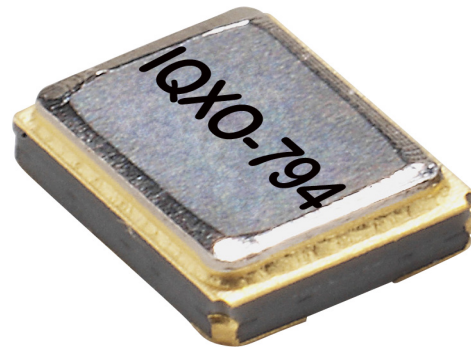
- Shock: MIL-STD-202, Method 213. Or comparable.
- Vibration: MIL-STD-883, Method 2007. Or comparable.
- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$

### Compliance

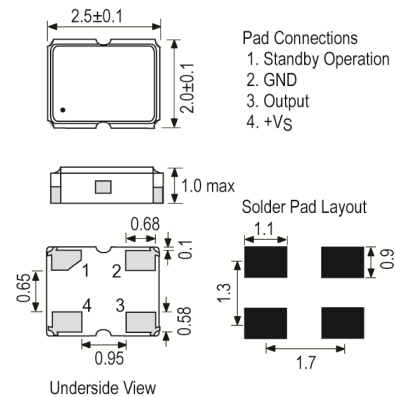
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

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



### Outline (mm)



### 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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