



## Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPX0025365Reel

Würth Part No. 830202536501



### Description

- Standard 7 x 5mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed.
- Model CFPS-72
- Model Issue number 14

### Frequency Parameters

- Frequency 10.0MHz
- Frequency Stability  $\pm 25.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Ageing  $\pm 3\text{ppm}$  per year max

### Electrical Parameters

- Supply Voltage  $5.0\text{V} \pm 10\%$
- Current Draw  $20.000\text{mA}$
- Note: parameters are referenced to  $15\text{pF}$  load

### Output Details

- Output Compatibility HCMOS/TTL
- Drive Capability  $15\text{pF}$  std,  $50\text{pF}$  max
- Rise and Fall Time  $10.0\text{ns}$  max
- Duty Cycle 45/55%
- Start up time:  $10\text{ms}$  max  
 $1.1\text{ms}$  typ to 90% of final amplitude (under ideal conditions @  $25^\circ\text{C}$ )

### Output Control

- Standby Operation:  
 Logic '1' ( $>70\%$  Vs) to pad 1 enables oscillator output.  
 Logic '0' ( $<30\%$  Vs) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state.  
 No connection to pad 1 enables oscillator output.  
 Standby Current:  $10\mu\text{A}$  max,  $2.3\mu\text{A}$  typ @  $25^\circ\text{C}$

### Noise Parameters

- RMS Phase Jitter:  $350\text{fs}$  typical

### Environmental Parameters

- Shock: MIL-STD-202, Method 213, Condition E.
- Vibration: MIL-STD-883, Method 2007, Condition A.
- Storage Temperature Range:  $-55$  to  $125^\circ$

### Manufacturing Details

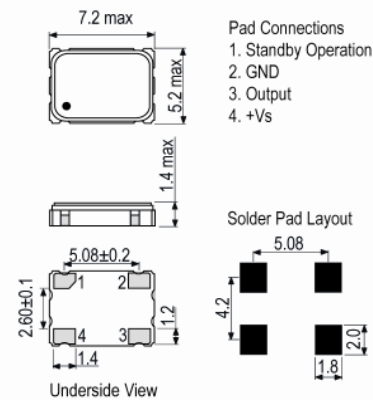
- RoHS Terminations NiAu
- RoHS Reflow Temp  $260^\circ\text{C}$  10s

### Compliance

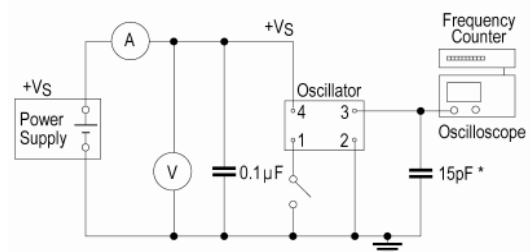
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JEDEC-STD-033): Not Applicable



### Outline (mm)



### Test Circuit



\* Inclusive of jigging and equipment capacitance

### 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



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### Packaging Details

- Pack Style: Reel    Tape & reel in accordance with EIA-481-D  
Pack Size: 1,000
- *Alternative packing option available*

### USEFUL LINKS

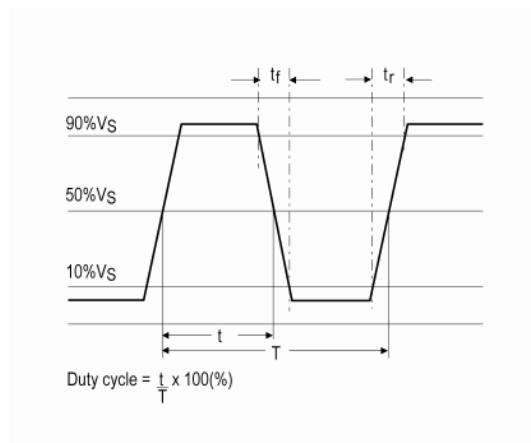
#### Toolbox:

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

#### Product Catalog:

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

### Wave Form



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Max-Eyth-Str. 1, 74638 Waldenburg, Germany  
Tel: +49(0) 7942 945-0

Email: [eiSos@we-online.de](mailto:eiSos@we-online.de)  
Web: [www.we-online.com](http://www.we-online.com)