



## Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPX0025497Reel

Würth Part No. 831025497



### Description

- Surface mount 3.2 x 2.5mm crystal oscillator in a hermetically sealed ceramic package with a seam sealed metal lid.
- Model CFPS-39
- Model Issue number 5

### Frequency Parameters

- Frequency 30.0MHz
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Ageing  $\pm 3\text{ppm max per year @ } 25^\circ\text{C}$

### Electrical Parameters

- Supply Voltage  $3.3\text{V} \pm 10\%$
- Current Draw  $12.000\text{mA}$

### Output Details

- Output Compatibility CMOS
- Drive Capability  $15\text{pF max}$
- Rise and Fall Time  $5.0\text{ns max}$
- 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  
Standby Current:  $10\mu\text{A max}$   
Start-Up Time:  $10\text{ms max}$

### Environmental Parameters

- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$
- Shock: MIL-STD-202F, Method 213B:  $1000\text{G}$ ,  $0.5\text{ms}$ ,  $1/2$  sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D:  $20\text{G}$  ( $10\text{Hz}-2000\text{Hz}$ ),  $4\text{hrs}$  in 3 mutually perpendicular planes (total  $12\text{hrs}$ )

### Manufacturing Details

- Maximum Process Temperature:  $260^\circ\text{C}$  ( $10\text{secs max}$ )
- RoHS Terminations NiAu
- RoHS Reflow Temp  $260\text{degC } 10\text{s}$

### Compliance

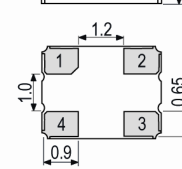
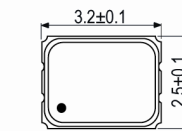
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size:  $1,000$



### Outline (mm)

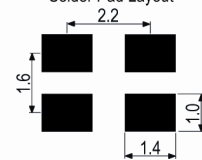


Underside View

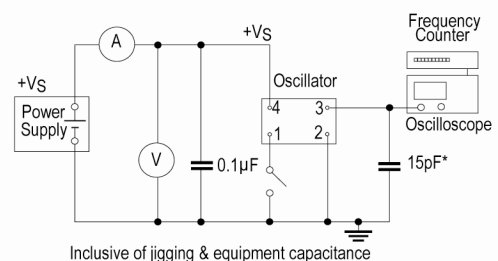
### Pad Connections

- Enable/Disable
- GND
- Output
- +Vs

### Solder Pad Layout



### Test Circuit



### CONTACT INFORMATION:

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- Alternative packing option available

### USEFUL LINKS

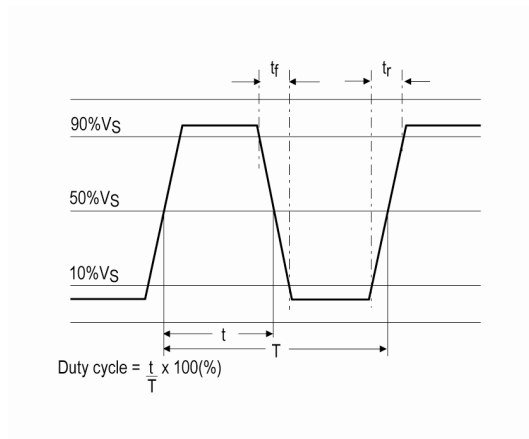
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### Wave Form



### CONTACT INFORMATION:

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