



Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPX0018032Reel

Würth Part No. 831018032



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 13

Frequency Parameters

- Frequency 20.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range 0.00 to 70.00°C
- Ageing $\pm 3\text{ppm per year max}$

Electrical Parameters

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

Output Details

- Output Compatibility HCMOS/TTL
- Drive Capability 15pF std, 50pF max
- Rise and Fall Time 10.0ns max
- Duty Cycle 45/55%

Output Control

- Standby Operation:
Logic '1' ($>70\% V_s$) to pad 1 enables oscillator output.
Logic '0' ($<30\% V_s$) 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 μ A max

Noise Parameters

- RMS Phase Jitter: 350fs 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°

Manufacturing Details

- RoHS Terminations NiAu
- RoHS Reflow Temp 260degC 10s

Compliance

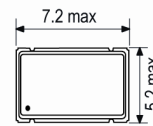
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

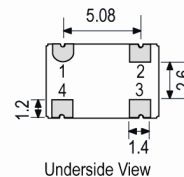
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
- Pack Size: 1,000



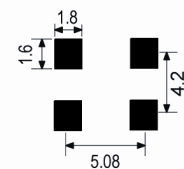
Outline (mm)



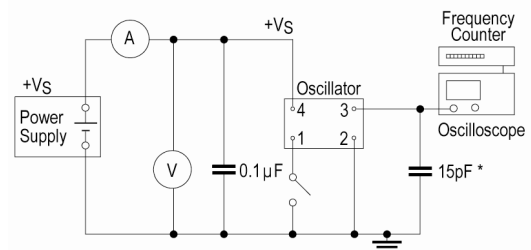
- Pad Connections
- Standby Operation
 - GND
 - Output
 - +Vs



Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

CONTACT INFORMATION:

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- Alternative packing option available

USEFUL LINKS

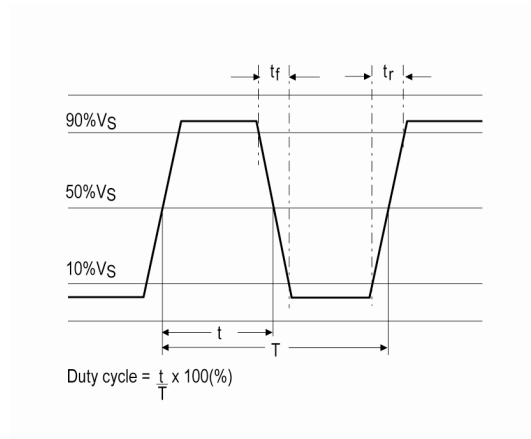
Toolbox:

www.we-online.com/toolbox

Product Catalog:

www.we-online.com/products

Wave Form



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