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Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPXO018871Reel

Wurth Part No. ***831018871***

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 48.0MHz
- Frequency Stability ±100.00ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ±3ppm per year max

Electrical Parameters

- Supply Voltage 5.0V ±10%
- Current Draw 50.000mA
- Note: parameters are referenced to 15pF load

Output Details

- Output Compatibility HCMOS/TTL
- Drive Capability 15pF std, 50pF max
- Rise and Fall Time 6.0ns 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; the oscillator output goes to the high impedance state.
  No connection to pad 1 enables oscillator output.
  Standby Current: 10µA 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

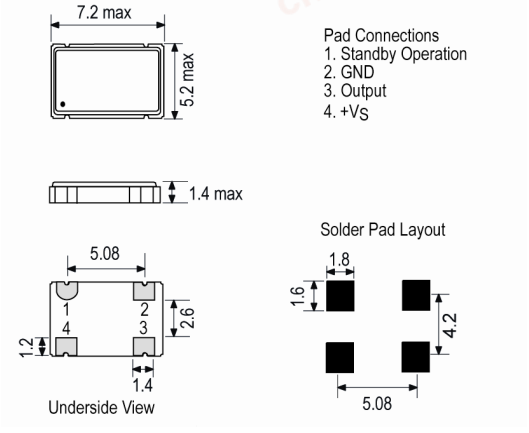
- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

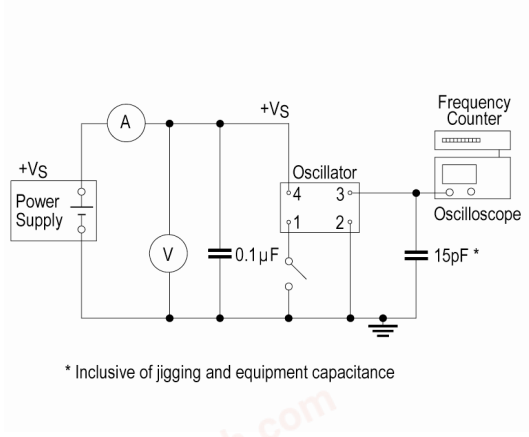
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
  Pack Size: 1,000



Outline (mm)



Test Circuit



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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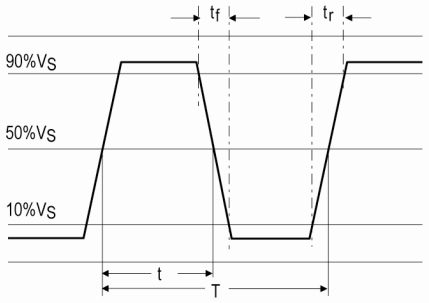
- *Alternative packing option available*

USEFUL LINKS

Toolbox:
www.we-online.com/toolbox

Product Catalog:
www.we-online.com/products

Wave Form



Duty cycle = $\frac{t}{T}$ x 100(%)

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Web: www.we-online.com