



Crystal Clock Oscillator Specification

IQD Part No. + Packaging: LFSPX0019870Reel

Würth Part No. 831019870



Description

- Standard 7 x 5mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed.
- Model CFPS-73
- Model Issue number 13

Frequency Parameters

- Frequency 40.0MHz
- Frequency Stability $\pm 100.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 3\text{ppm}$ per year max

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 10\%$
- Current Draw 20.000mA
- Note: parameters are referenced to 15pF load

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF std, 50pF max
- Rise and Fall Time 10.0ns 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: $10\mu\text{A}$ max

Noise Parameters

- Phase Noise @125MHz (typical):
10Hz -54dBc
100Hz -92dBc
1kHz -130dBc
10kHz -149dBc
100kHz -159dBc
1MHz -163dBc
- RMS Phase Jitter @125MHz: 52fs 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°C

Manufacturing Details

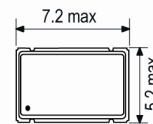
- RoHS Terminations NiAu
- RoHS Reflow Temp 260degC 10s

Compliance

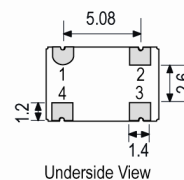
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



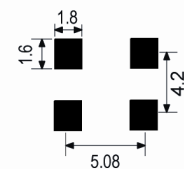
Outline (mm)



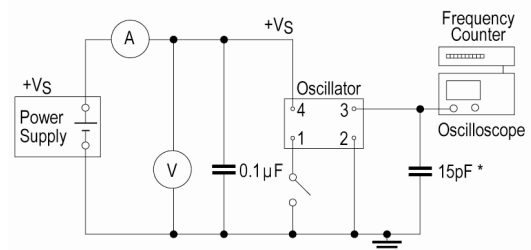
- Pad Connections
- Standby Operation
 - GND
 - Output
 - +VS



Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

CONTACT INFORMATION:

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Packaging Details

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

USEFUL LINKS

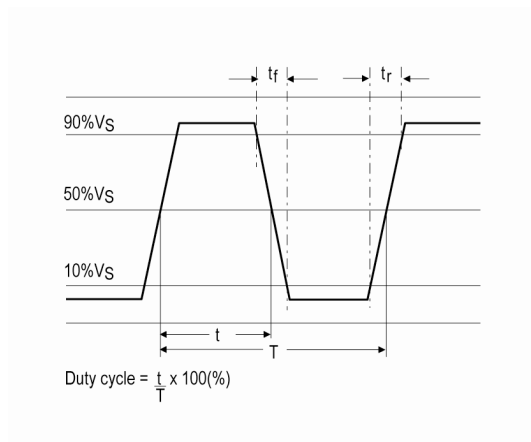
Toolbox:

www.we-online.com/toolbox

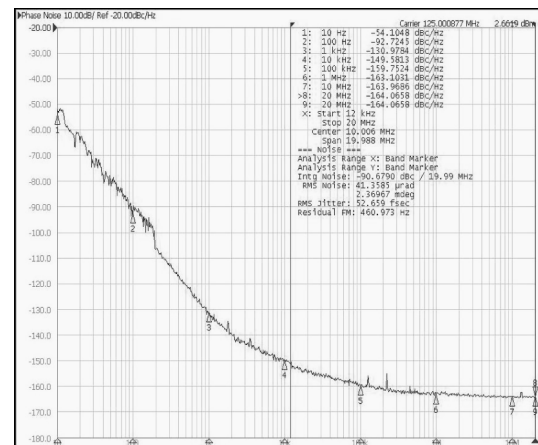
Product Catalog:

www.we-online.com/products

Wave Form



Phase Noise / Jitter



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