



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 48.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 3\text{ppm}$ per year max

Electrical Parameters

- Supply Voltage $5.0\text{V} \pm 10\%$
- 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 $45/55\%$
- Start up time: 10ms max
 1.1ms typ to 90% of final amplitude (under ideal conditions @ 25°C)
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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°C

Noise Parameters

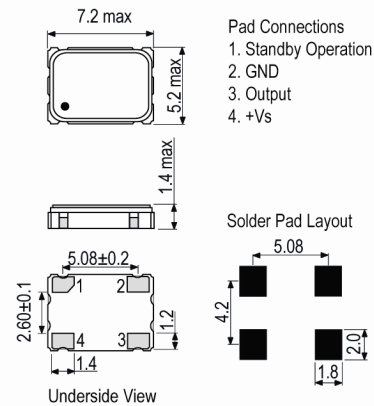
- RMS Phase Jitter: 350fs typical

Environmental Parameters

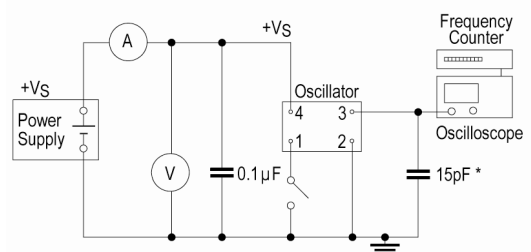
- Shock: MIL-STD-202, Method 213, Condition E.
- Vibration: MIL-STD-883, Method 2007, Condition A.
- Storage Temperature Range: -55 to 125°



Outline (mm)



Test Circuit



* Inclusive of jigging and equipment capacitance

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Manufacturing Details

- RoHS Terminations NiAu
- RoHS Reflow Temp 260°C 10s

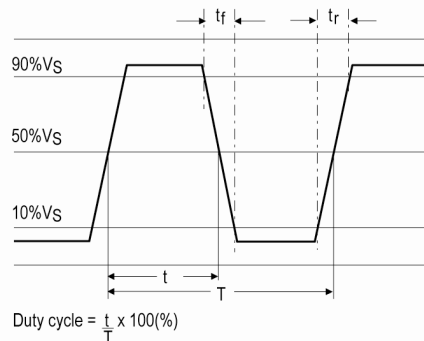
Compliance

- 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
- *Alternative packing option available*

Wave Form



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