

Customer Part:



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 **50.0MHz**
- Frequency Stability **±50.00ppm**
- Operating Temperature Range **0.00 to 70.00°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%**
- Start up time: 10ms max
1.1ms typ to 90% of final amplitude (under ideal conditions @ 25°C)

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, 2.3µA 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°

Manufacturing Details

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

Compliance

- RoHS Status (2015/863/EU) **Compliant**
- REACH Status **Compliant**
- MSL Rating (JDEC-STD-033): **Not Applicable**

Packaging Details

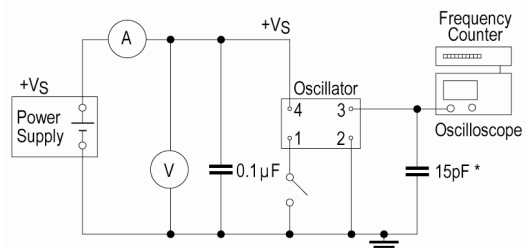
- Pack Style: Bulk **Loose in bulk pack**
Pack Size: 100
- Alternative packing option available*



Outline (mm)



Test Circuit



* Inclusive of jigging and equipment capacitance

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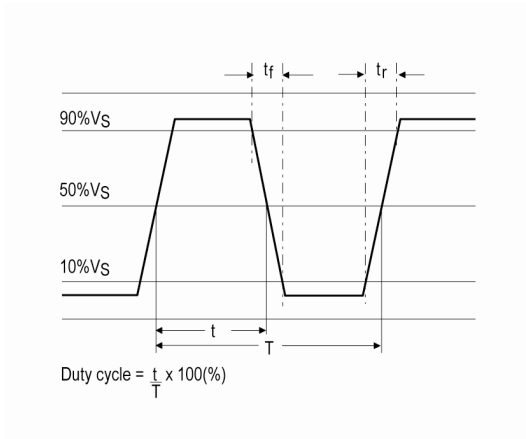
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Wave Form



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