

## 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 **20.0MHz**
- Frequency Stability **±50.00ppm**
- Operating Temperature Range **-40.00 to 85.00°C**
- Ageing **±3ppm per year max**

### Electrical Parameters

- Supply Voltage **5.0V ±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%**
- 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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**Customer Part:**

**Wave Form**



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