



### Description

- Standard 7 x 5mm crystal oscillator  
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model: CFPS-72
- Model Issue number: 12

### Frequency Parameters

- Frequency: 8.0MHz
- Frequency Tolerance @ 25°C: INCLUSIVE
- Frequency Stability: ±50.00ppm
- Operating Temperature Range: -40.00 to 85.00°C
- Ageing: ±3ppm per year max

### Electrical Parameters

- Supply Voltage: 5.0V
- Supply Voltage Tolerance: ±10%
- Current Draw: 20mA max

### Output Details

- Output Compatibility: HCMOS/TTL
- Output Load: 50pF max
- Rise and Fall time: 10ns 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

### 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

### Compliance

- RoHS Status: Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

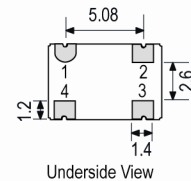
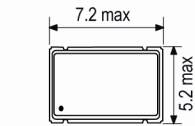
### Packaging

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

*This document is correct at the time of printing; please contact your local office for the latest version.*

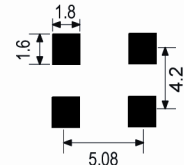


### Outline (mm)

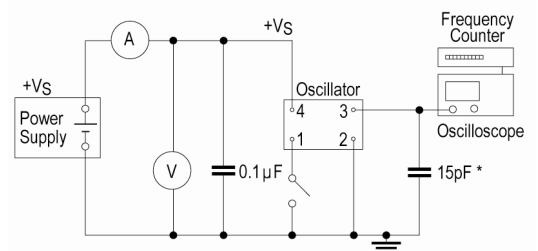


- Pad Connections
- Standby Operation
  - GND
  - Output
  - +Vs

### Solder Pad Layout



### Test Circuit



\* Inclusive of jigging and equipment capacitance

### Sales Office Contact Details:

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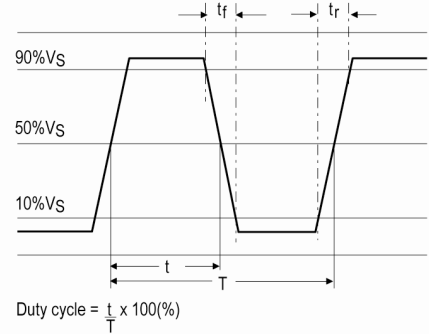
USA: +1 408.273.4530

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)

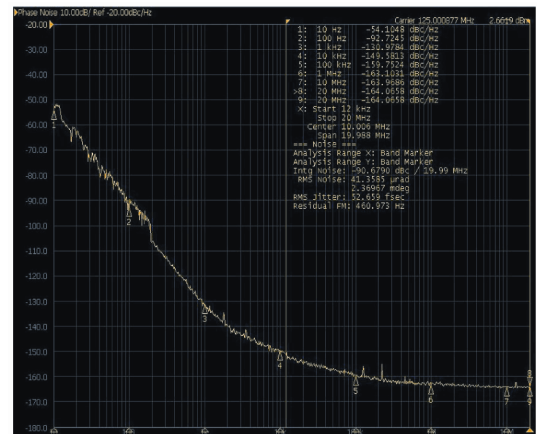
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)



### Wave Form



### Phase Noise / Jitter



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