

## Customer Part:



### Description

- Surface mount 3.2 x 2.5mm crystal oscillator in a hermetically sealed ceramic package with a seam sealed metal lid.
- Model **CFPS-39**
- Model Issue number **6**

### Frequency Parameters

- Frequency **48.0MHz**
- Frequency Stability **±25.00ppm**
- Operating Temperature Range **-40.00 to 85.00°C**
- Ageing **±3ppm max per year @ 25°C**

### Electrical Parameters

- Supply Voltage **3.3V ±10%**
- Current Draw **20.000mA**

### Output Details

- Output Compatibility **CMOS**
- Drive Capability **15pF max**
- Rise and Fall Time **5.0ns max**
- Duty Cycle **45/55%**
- Output Low Vol: 10% Vs max  
Output High Voh: 90% Vs min
- Start-Up Time: 10ms max.  
0.7ms 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; when disabled the oscillator output goes to the high impedance state  
No connection to pad 1 enables oscillator output  
Standby Current: 10µA max

### Environmental Parameters

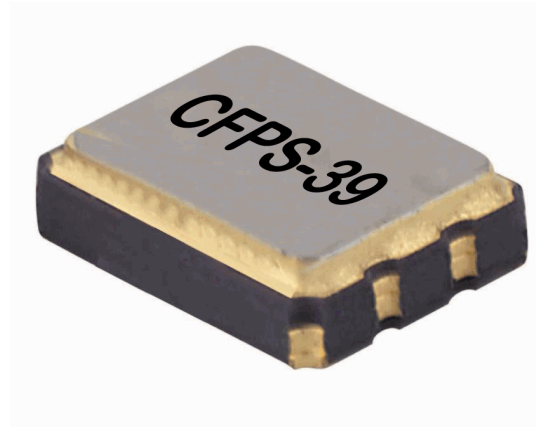
- Storage Temperature Range: **-55 to 125°C**
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20g (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

### Manufacturing Details

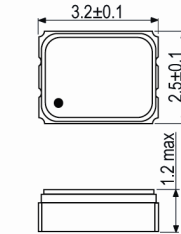
- RoHS Terminations **NiAu**
- RoHS Reflow Temp **260degC max for 10s max**

### Compliance

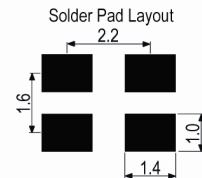
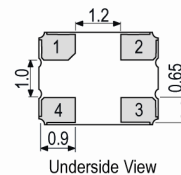
- RoHS Status (2015/863/EU) **Compliant**
- REACH Status **Compliant**
- MSL Rating (JDEC-STD-033): **Not Applicable**



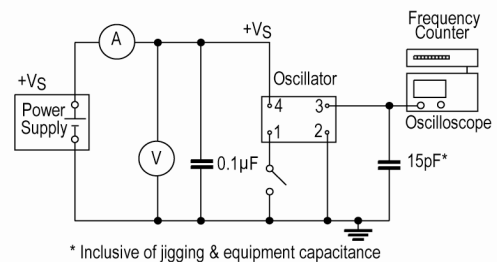
### Outline (mm)



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



### Test Circuit



### Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760 668 8935

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

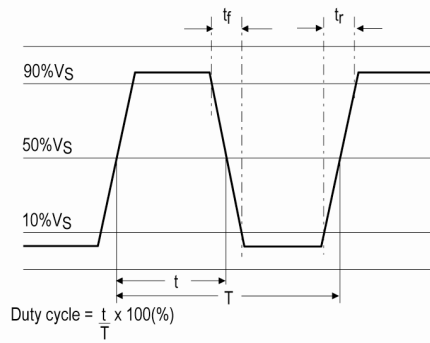
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)

Customer Part:

Packaging Details

- Tape & reel in accordance with EIA-481  
Quantities below the standard reel size to be supplied on cut tape.  
Standard Quantity: 3,000 Pieces

Wave Form



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