



### Description

- Surface mount oscillator in a ceramic package with a hermetically sealed metal lid
- Model: CFPS-32
- Model Issue number: 12

### Frequency Parameters

- Frequency: 40.0MHz
- Frequency Stability:  $\pm 50.00\text{ppm}$
- Operating Temperature Range:  $-40.00$  to  $85.00^\circ\text{C}$

### Electrical Parameters

- Supply Voltage:  $2.5\text{V} \pm 5\%$
- Current Draw:  $20.00\text{mA}$

### Output Details

- Output Compatibility: CMOS
- Drive Capability:  $15\text{pF}$  max
- Rise and Fall Time:  $5\text{ns}$  max
- Duty Cycle:  $40/60\%$

### Output Control

- 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

### Environmental Parameters

- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$
- Shock: MIL-STD-202, Method 213, Condition E
- Vibration: MIL-STD-883, Method 2007, Condition A

### Compliance

- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

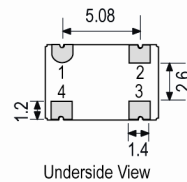
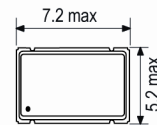
### Packaging Details

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

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

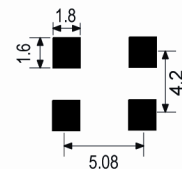


### Outline (mm)

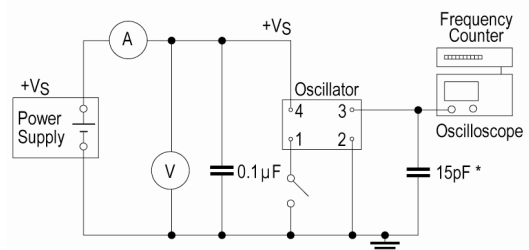


- Pad Connections
- Standby Operation
  - GND
  - Output
  - +VS

### Solder Pad Layout



### Test Circuit



\* Inclusive of jigging and equipment capacitance

### Sales Office Contact Details:

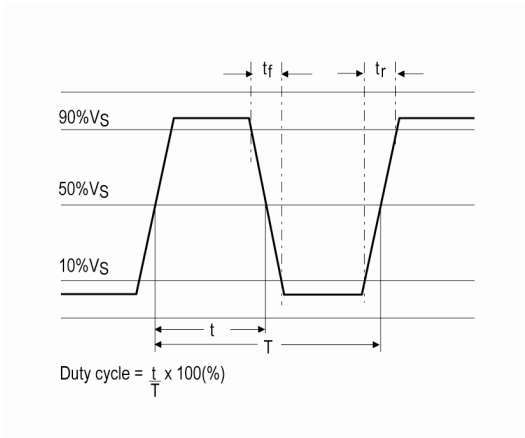
UK: +44 (0)1460 270200  
Germany: 0800 1808 443

France: 0800 901 383  
USA: +1 408.273.4530

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)



**Wave Form**



**Sales Office Contact Details:**

UK: +44 (0)1460 270200  
Germany: 0800 1808 443

France: 0800 901 383  
USA: +1 408.273.4530

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)