

## Customer Part:



### Description

- Standard 7 x 5mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed.
- Model **CFPS-73**
- Model Issue number **15**

### Frequency Parameters

- Frequency **100.0MHz**
- Frequency Stability **±50.00ppm**
- Operating Temperature Range **0.00 to 70.00°C**
- Ageing **±5ppm per year**

### Electrical Parameters

- Supply Voltage **3.3V ±10%**
- Current Draw **65.000mA**
- Note: parameters are referenced to 15pF load

### Output Details

- Output Compatibility **CMOS**
- Drive Capability **15pF std, 30pF max**
- Rise and Fall Time **5.0ns max**
- Duty Cycle **40/60**
- Start up time: 10ms max.

### 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: Half Sine shock pulse with peak acceleration 500g; Pulse duration: 0.3ms
- Vibration: MIL-STD-202 Method 204. 5g for 20 minutes, 12 cycles in each of the 3 orientations, 10 - 2000 Hz. As per Table 11 of AEC-Q200.
- Storage Temperature Range: -55 to 125°C

### Manufacturing Details

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

### Compliance

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

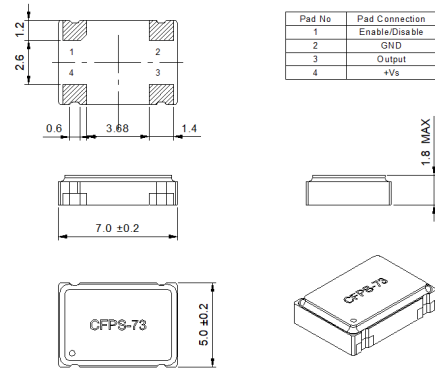
### Packaging Details

- Tape & reel in accordance with EIA-481  
 Quantities below the standard reel size to be supplied on cut tape.

Standard Pack Quantity: 1,000

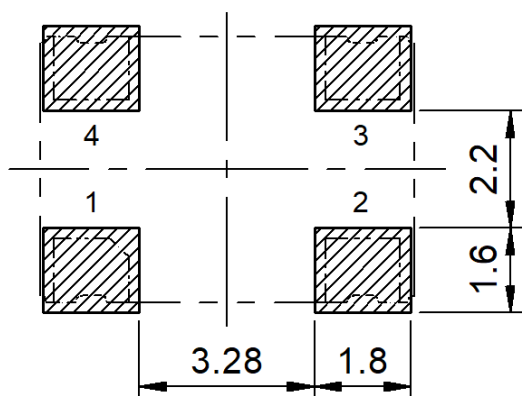


### Outline (mm)



Note: Please note that due to the availability of ceramic bases in the marketplace, you may see slight cosmetic differences in the appearance of this item; however the electrical performance is unaffected.

### Recommended Solder Pad Layout



### Sales Office Contact Details:

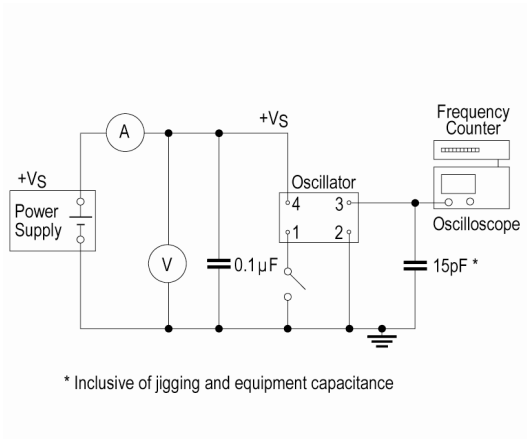
UK: +44 (0)1460 270200

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

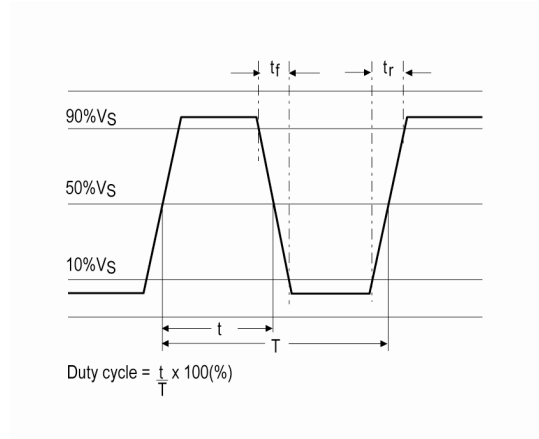
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)

**Customer Part:**

**Test Circuit**



**Waveform**



**Sales Office Contact Details:**

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