



### Description

- Standard 7 x 5mm crystal oscillator  
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-73
- Model Issue number 12

### Frequency Parameters

- Frequency 25.0MHz
- Frequency Tolerance @ 25°C INCLUSIVE
- Frequency Stability  $\pm 25.00$ ppm
- Operating Temperature Range 0.00 to 70.00°C
- Ageing  $\pm 3$ ppm per year max

### Electrical Parameters

- Supply Voltage 3.3V
- Supply Voltage Tolerance  $\pm 10\%$
- Current Draw 12mA max

### Output Details

- Output Compatibility HCMOS
- Output Load 50pF max
- Rise and Fall time 10ns max
- Duty Cycle 45/55%

### 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 $\mu$ A max

### Noise Parameters

- Phase Noise @125MHz (typical):
  - 10Hz -54dBc
  - 100Hz -92dBc
  - 1kHz -130dBc
  - 10kHz -149dBc
  - 100kHz -159dBc
  - 1MHz -163dBc
- RMS Phase Jitter @125MHz: 52fs 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°C

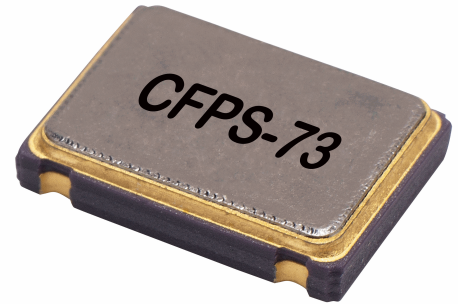
### Compliance

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

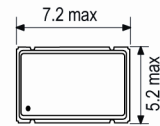
### Packaging

- Pack Type: R500 Tape and reel of 500pcs
- Pack Size 500
- Alternative packing option available

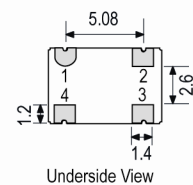
*This document is correct at the time of printing; please contact your local office for the latest version.*



### Outline (mm)

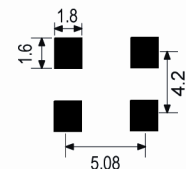


- Pad Connections
- Standby Operation
  - GND
  - Output
  - +Vs

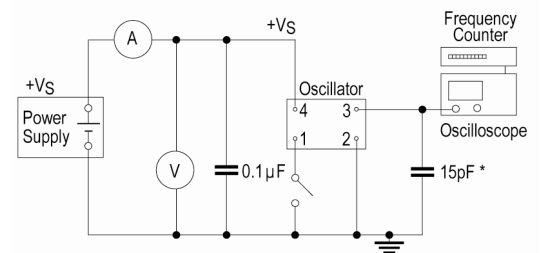


Underside View

### Solder Pad Layout



### Test Circuit



\* Inclusive of jiggging and equipment capacitance

### Sales Office Contact Details:

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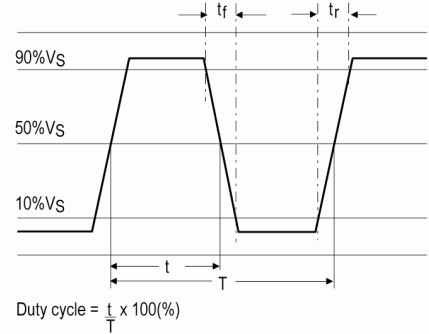
USA: +1 408.273.4530

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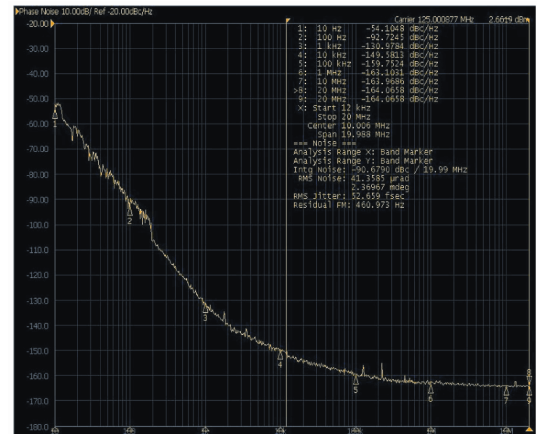
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)



### Wave Form



### Phase Noise / Jitter



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