



### Description

- PLL based, one time only factory programmable (for a fast lead time) crystal oscillator in a hermetically sealed ceramic package with a metal lid.  
This model is not approved for on-board avionics applications; in such instances our 'CFPP-72 AVIATION' version should be specified.
- Model CFPP-72
- Model Issue number 11

### Frequency Parameters

- Frequency 20.0MHz
- Frequency Stability  $\pm 100.00\text{ppm}$
- Operating Temperature Range 0.00 to 70.00°C
- Ageing  $\pm 5\text{ppm}$  max in 1st year @ 25°C

### Electrical Parameters

- Supply Voltage 5.0V  $\pm 0.5\text{V}$
- Current Draw 45.00mA

### Output Details

- Output Compatibility CMOS
- Drive Capability 50pF max
- Rise and Fall Time 4.0ns max
- Duty Cycle 45/55%
- Logic '1' to pad 1 enables oscillator output  
Logic '0' 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

### Noise Parameters

- Jitter pk-pk:  
1 to 33MHz 250ps max  
>33MHz 175ps max
- Jitter pk-pk:  
1 to 33MHz 100ps typ  
>33MHz 75ps typ

### Environmental Parameters

- Storage Temperature Range: -55 to 125°C

### Compliance

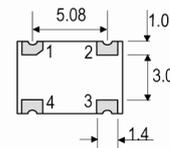
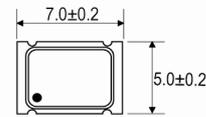
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

- Pack Style: Bulk Loose in bulk pack  
Pack Size: 1
- *Alternative packing option available*



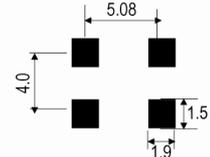
### Outline (mm)



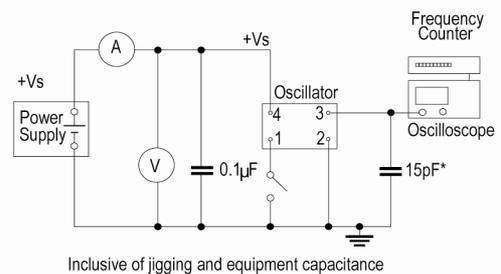
Underside View

- Pad Connections
1. N/C or Tri-State
  2. GND
  3. Output
  4. +Vs

### Solder Pad Layout



### Test Circuit



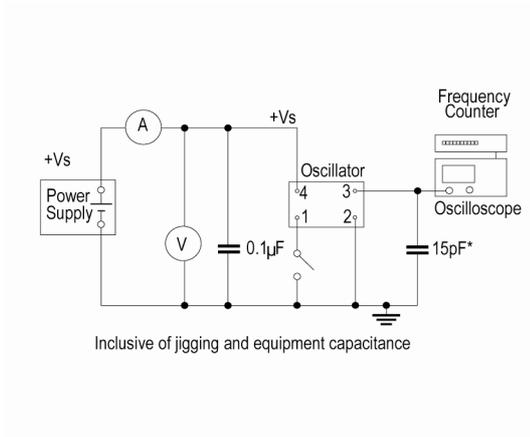
### Sales Office Contact Details:

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

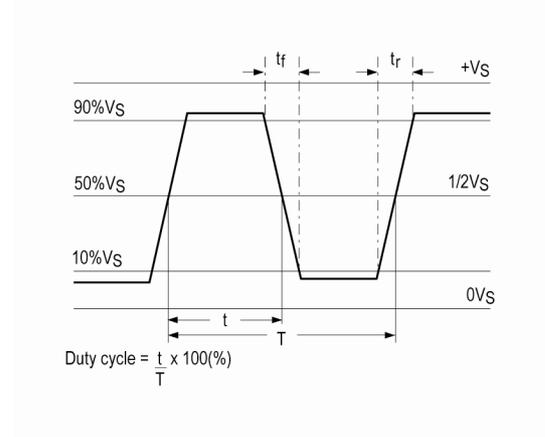
France: 0800 901 383  
USA: +1.760.318.2824

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

**Test Circuit**



**Wave Form**



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