

ISSUE 13; May 2024



### Description

- Standard 7 x 5mm, 2.5V surface mount oscillator in a ceramic package, with a hermetically sealed metal lid

### Frequency Parameters

- Frequency 500.0kHz to 156.25MHz
- Frequency Stability  $\pm 25.00\text{ppm}$  to  $\pm 100.00\text{ppm}$

### Electrical Parameters

- Supply Voltage 2.5V  $\pm 5\%$

### Operating Temperature Ranges

- 10 to 70°C
- 40 to 85°C

### Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max

### 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: 10µA max

### Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202, Method 213, Condition E
- Vibration: MIL-STD-883, Method 2007, Condition A

### Manufacturing Details

- RoHS Terminations NiAu
- RoHS Reflow 260degC 10s

### Ordering Information

- Frequency\*
- Model\*
- Output
- Frequency Stability\*
- Operating Temperature Range\*
- Supply Voltage  
(\*minimum required)
- Example  
10.0MHz CFPS-32  
CMOS  $\pm 50\text{ppm}$  -10 to 70C 2.5V

### Compliance

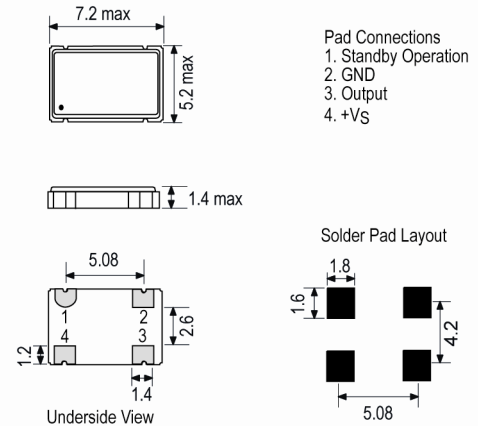
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

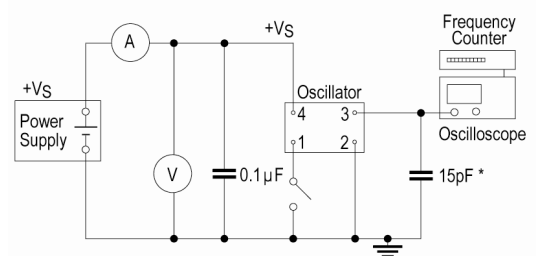
- Pack Style: Reel Tape & reel in accordance with EIA-481  
Standard Pack Quantity: 1,000



### Outline (mm)



### Test Circuit



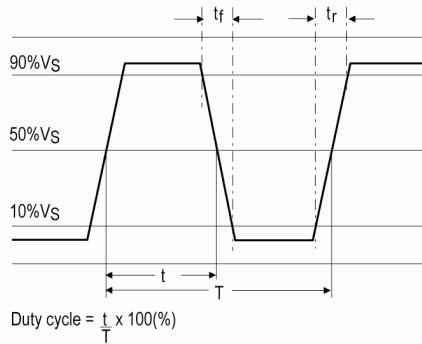
\* Inclusive of jigging and equipment capacitance

### 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)

### Wave Form



### Electrical Specification - maximum limiting values 2.5V ±5%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
500.0kHz	9.999999MHz	-10 to 70 -40 to 85	±25.0 ±25.0	6 6	5 5	40/60% 40/60%
10.0MHz	19.999999MHz	-10 to 70 -40 to 85	±25.0 ±25.0	8 8	5 5	40/60% 40/60%
20.0MHz	31.999999MHz	-10 to 70 -40 to 85	±25.0 ±25.0	8 8	5 5	40/60% 40/60%
32.0MHz	49.999999MHz	-10 to 70 -40 to 85	±25.0 ±25.0	20 20	5 5	40/60% 40/60%
50.0MHz	79.999999MHz	-10 to 70 -40 to 85	±25.0 ±25.0	20 20	4 4	40/60% 40/60%
80.0MHz	99.999999MHz	-10 to 70 -40 to 85	±25.0 ±25.0	25 25	3 3	40/60% 40/60%
100.0MHz	156.25MHz	-10 to 70 -40 to 85	±25.0 ±25.0	30 30	3 3	40/60% 40/60%

*This document was correct at the time of printing; please contact your local sales office for the latest version.*  
[Click to view latest version on our website.](#)

#### 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)