

ISSUE 12; July 2016

### Description

- Standard 7 x 5mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed.  
Stock parts are available.  
Fast Make Capability: The CFPP-72 series programmable oscillators are the nearest equivalent fast make model.



### Frequency Parameters

- Frequency: 500.0kHz to 100.0MHz
- Frequency Stability:  $\pm 25.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing:  $\pm 3\text{ppm}$  per year max

### Electrical Parameters

- Supply Voltage:  $5.0\text{V} \pm 10\%$

### Operating Temperature Ranges

- 0 to  $70^{\circ}\text{C}$
- $-40$  to  $85^{\circ}\text{C}$

### Output Details

- Output Compatibility: HCMOS/TTL

Drive Capability	
0.5MHz to 50.0MHz	50pF max
50.0MHz to 80.0MHz	30pF max
80.0MHz to 100.0MHz	15pF 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:  $10\mu\text{A}$  max

### Noise Parameters

- Phase Jitter RMS :  $350\text{fs}$  typical

### Environmental Parameters

- Shock: MIL-STD-202, Method 213, Condition E.
- Vibration: MIL-STD-883, Method 2007, Condition A.

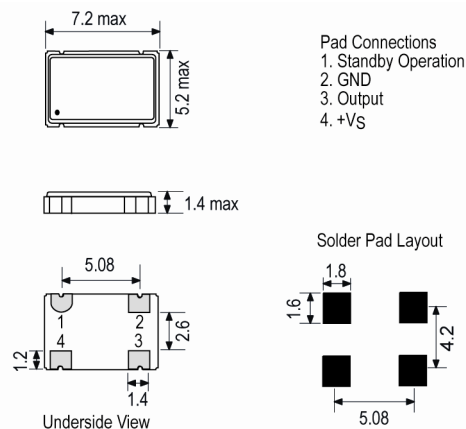
### Compliance

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

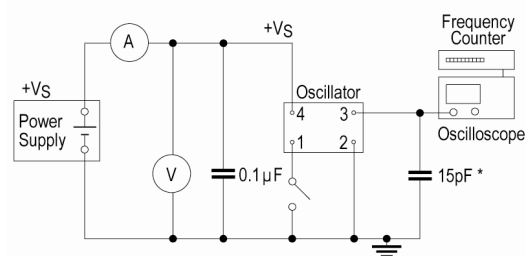
### Packaging Details

- Pack Style: Bulk Loose in bulk pack  
Pack Size: 100
- Pack Style: Cutt In tape, cut from a reel  
Pack Size: 1
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 1,000

### Outline (mm)



### Test Circuit



\* Inclusive of jiggig and equipment capacitance

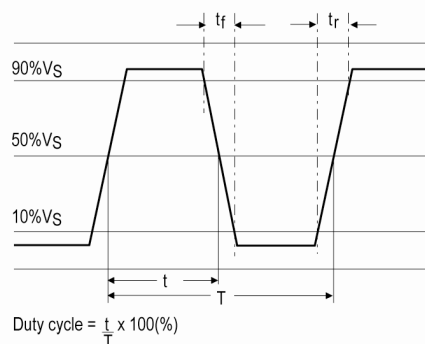
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**Wave Form**



**Electrical Specification - maximum limiting values 5.0V ±10%**

Frequency Min	Frequency Max	Temperature Range	Stability Min	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
500.0kHz	20.0MHz	0 to 70	±25.0	20	10	45/55%
		-40 to 85	±25.0	20	10	45/55%
20.000001MHz	35.0MHz	0 to 70	±25.0	30	6	45/55%
		-40 to 85	±25.0	30	6	45/55%
35.000001MHz	70.0MHz	0 to 70	±25.0	50	6	45/55%
		-40 to 85	±25.0	50	6	45/55%
70.000001MHz	100.0MHz	0 to 70	±25.0	70	6	45/55%
		-40 to 85	±25.0	70	6	45/55%

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

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