

ISSUE 12; October 2015

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°C
- -40 to 85°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 : 350fs typical

Environmental Parameters

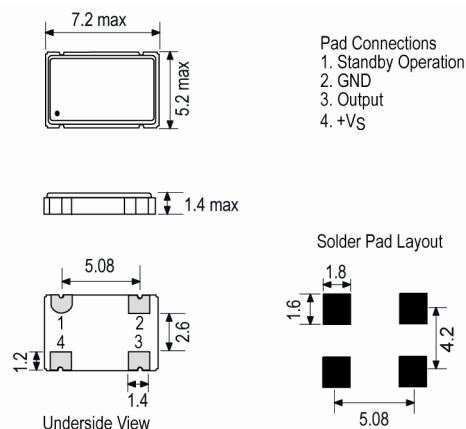
- Shock: MIL-STD-202, Method 213, Condition E.
- Vibration: MIL-STD-883, Method 2007, Condition A.

Compliance

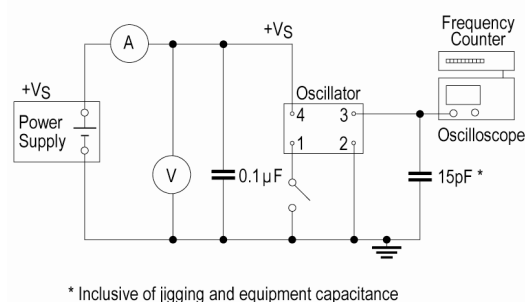
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



Outline (mm)



Test Circuit



Sales Office Contact Details:

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

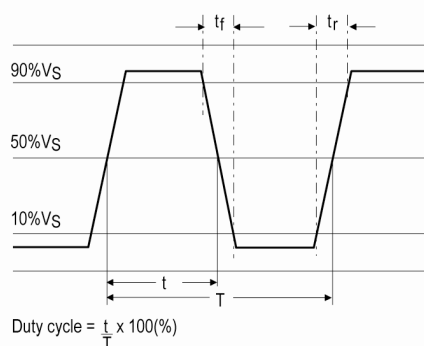
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Packaging Details

- Pack Style: Bulk Loose in bulk pack
Pack Size: 100
- Pack Style: Cutt In tape, cut from a reel
Pack Size: 100
- Pack Style: R500 Tape & reel of 500pcs
Pack Size: 500
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- Pack Style: R250 Tape & reel of 250pcs
Pack Size: 250

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 -40 to 85	±25.0 ±25.0	20 20	10 10	45/55 45/55
20.000001MHz	35.0MHz	0 to 70 -40 to 85	±25.0 ±25.0	30 30	6 6	45/55 45/55
35.000001MHz	70.0MHz	0 to 70 -40 to 85	±25.0 ±25.0	50 50	6 6	45/55 45/55
70.000001MHz	100.0MHz	0 to 70 -40 to 85	±25.0 ±25.0	70 70	6 6	45/55 45/55

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