



ISSUE 12; February 2012 - RoHS 2011/65/EU

Description

- Standard 7 x 5mm, 2.5V surface mount oscillator in a ceramic package, with a hermetically sealed metal lid
- Stock parts listed at the beginning of this chapter
- Fast Make capability: CFPP-72 and CFPP-73 series programmable oscillators are the nearest equivalent fast make model
- MEMS capability: IQMS-500 series oscillators are the nearest equivalent MEMS model

Frequency Range

- Frequency 0.5 to 156.0MHz

Supply Voltage

- Voltage 2.5V $\pm 5\%$

Output Compatibility & Load

- Output Compatibility CMOS
- Drive Capability 15pF max

Frequency Stabilities

- Frequency Stability $\pm 25\text{ppm}$, $\pm 50\text{ppm}$, $\pm 100\text{ppm}$

Operating Temperature Ranges

- 10 to 70°C
- 40 to 85°C

Output Details

- 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 μ A max

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

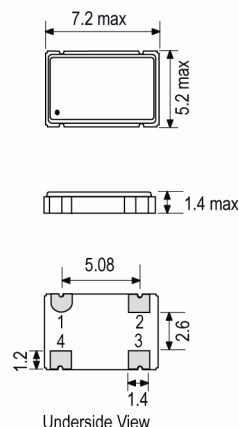
Ordering Information (*minimum required)

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

Packing Details

- Pack Style: **Bulk** Loose in bulk pack
- Pack Size 100
- Pack Style: **Reel** Tape and reel in accordance with EIA-481-D
- Pack Size 1,000
- Alternative packing options available

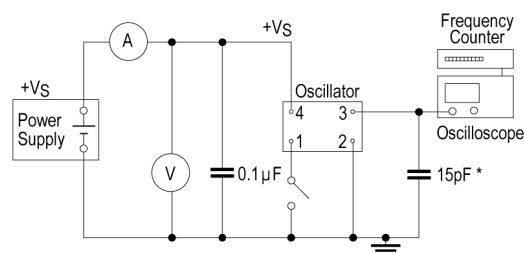
Outline (mm)



Pad Connections
1. Standby Operation
2. GND
3. Output
4. +VS

Solder Pad Layout

Test Circuit



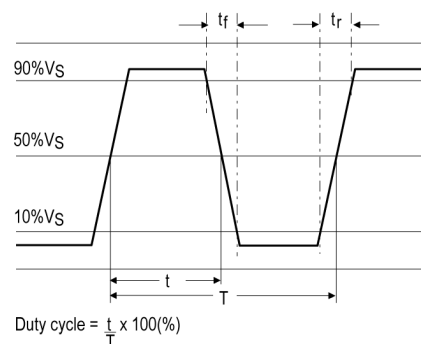
* Inclusive of jigging and equipment capacitance

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**Output Waveform****Electrical Specification - maximum limiting values 2.5V $\pm$ 5%**

Frequency Range	Temp Range	Stability		Current Draw	Rise & Fall (10 to 90%)	Duty Cycle %
		Min	Max			
0.50 to <10.0MHz	-10 to 70°C	$\pm$ 25ppm	$\pm$ 100ppm	6.0mA	5ns	40/60%
	-40 to 85°C	$\pm$ 50ppm	$\pm$ 100ppm	6.0mA	5ns	40/60%
10.00 to <20.0MHz	-10 to 70°C	$\pm$ 25ppm	$\pm$ 100ppm	8.0mA	5ns	40/60%
	-40 to 85°C	$\pm$ 50ppm	$\pm$ 100ppm	8.0mA	5ns	40/60%
20.00 to <32.0MHz	-10 to 70°C	$\pm$ 25ppm	$\pm$ 100ppm	8.0mA	5ns	40/60%
	-40 to 85°C	$\pm$ 50ppm	$\pm$ 100ppm	8.0mA	5ns	40/60%
32.00 to <50.0MHz	-10 to 70°C	$\pm$ 25ppm	$\pm$ 100ppm	20.0mA	5ns	40/60%
	-40 to 85°C	$\pm$ 50ppm	$\pm$ 100ppm	20.0mA	5ns	40/60%
50.00 to <80.0MHz	-10 to 70°C	$\pm$ 25ppm	$\pm$ 100ppm	20.0mA	4ns	40/60%
	-40 to 85°C	$\pm$ 50ppm	$\pm$ 100ppm	20.0mA	4ns	40/60%
80.00 to <100.0MHz	-10 to 70°C	$\pm$ 25ppm	$\pm$ 100ppm	25.0mA	3ns	40/60%
	-40 to 85°C	$\pm$ 50ppm	$\pm$ 100ppm	25.0mA	3ns	40/60%
100.00 to <156.0MHz	-10 to 70°C	$\pm$ 25ppm	$\pm$ 100ppm	30.0mA	3ns	40/60%
	-40 to 85°C	$\pm$ 50ppm	$\pm$ 100ppm	30.0mA	3ns	40/60%

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

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