



ISSUE 5; February 2012 - RoHS 2011/65/EU

Description

- Standard 7 x 5mm 1.8V surface mount oscillator in a ceramic package with a hermetically sealed metal lid

Frequency Range

- Frequency 0.5 to 156.0MHz

Supply Voltage

- Voltage 1.8V ±5%

Output Compatibility & Load

- Output Compatibility CMOS
- Drive Capability 15pF

Frequency Stabilities

- Frequency Stability ±25ppm, ±100ppm

Operating Temperature Ranges

- 40 to 85°C
- 10 to 70°C

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

Ordering Information (*minimum required)

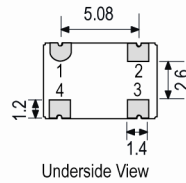
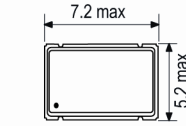
- Frequency*
- Model*
- Output
- Frequency Stability*
- Operating Temperature Range*
- Supply Voltage (*minimum required)
- Example
10.0MHz CFPS-31
CMOS ±50ppm -10 to 70C 1.8V

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

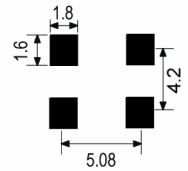


Outline (mm)

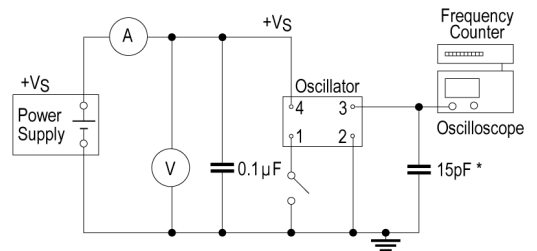


- Pad Connections
- Standby Operation
 - GND
 - Output
 - +VS

Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

Sales Office Contact Details:

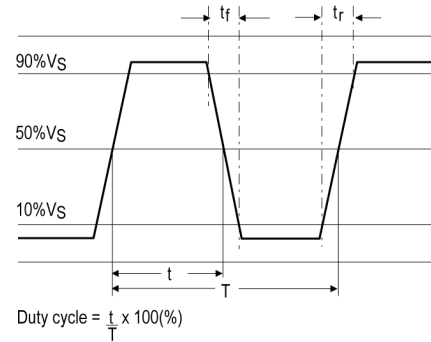
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Output Waveform



Electrical Specification - maximum limiting values 1.8V ±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	±25ppm	±100ppm	5.0mA	5ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	5.0mA	5ns	40/60%
10.00 to <32.0MHz	-10 to 70°C	±25ppm	±100ppm	6.0mA	5ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	6.0mA	5ns	40/60%
32.00 to <50.0MHz	-10 to 70°C	±25ppm	±100ppm	15.0mA	5ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	15.0mA	5ns	40/60%
50.00 to <80.0MHz	-10 to 70°C	±25ppm	±100ppm	15.0mA	4ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	15.0mA	4ns	40/60%
80.00 to <100.0MHz	-10 to 70°C	±25ppm	±100ppm	20.0mA	3ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	20.0mA	3ns	40/60%
100.00 to <156.0MHz	-10 to 70°C	±25ppm	±100ppm	25.0mA	3ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	25.0mA	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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