



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



Description

- Low supply current crystal oscillators
- Ceramic package with a seam sealed metal lid, hermetically sealed
- Please see our CFPS-9 package for standard 5 x 3.2 oscillators

Frequency Range

- Frequency: 1.8 to 50.0MHz

Supply Voltage

- Voltage: 3.3V \pm 5%

Ageing

- Ageing: \pm 3ppm max per year

Output Compatibility & Load

- Output Compatibility: CMOS
- Drive Capability: 15pF max

Frequency Stabilities

- Frequency Stability: \pm 25ppm, \pm 50ppm, \pm 100ppm

Operating Temperature Ranges

- 40 to 85°C
- 10 to 70°C

Electrical Parameters

- Standby Current: 1 μ A 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; when the oscillator output goes to the high impedance state
 - No connection to pad 1 enables oscillator output

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Ordering Information (*minimum required)

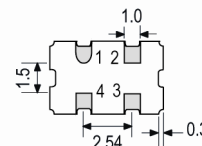
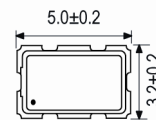
- Frequency*
- Model*
- Output
- Frequency Stability*
- Operating Temperature Range*
- Supply Voltage (*minimum required)
- Example: 20.0MHz CFPS-69, CMOS \pm 50ppm -10 to 70C 3.3V

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

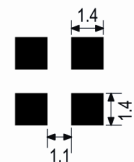


Outline (mm)

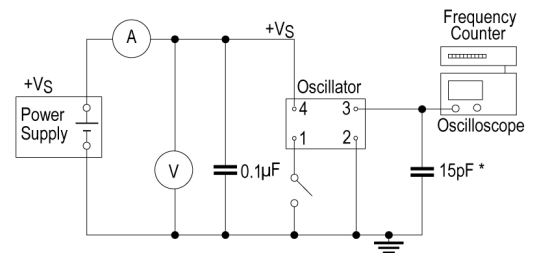


- Pad Connections
- Standby Operation
 - GND
 - Output
 - +VS

Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

Sales Office Contact Details:

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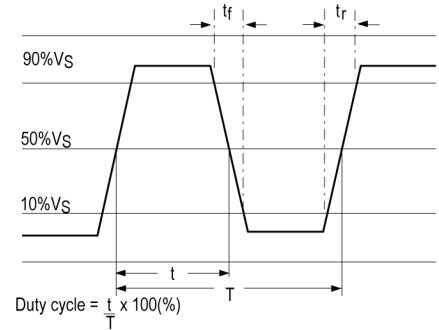
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- Alternative packing options available

Output Waveform



Electrical Specification - maximum limiting values 3.3V ±5%

Frequency Range	Temp Range	Stability		Current Draw	Rise & Fall (10 to 90%)	Duty Cycle %
		Min	Max			
1.80 to <32.0MHz	-10 to 70°C	±25ppm	±100ppm	4.5mA	12.0ns	45/55%
	-40 to 85°C	±50ppm	±100ppm	4.5mA	12.0ns	45/55%
32.00 to <50.0MHz	-10 to 70°C	±25ppm	±100ppm	6.0mA	12.0ns	45/55%
	-40 to 85°C	±50ppm	±100ppm	6.0mA	12.0ns	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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