



ISSUE 6; September 2012 - RoHS 2011/65/EU



Description

- Standard 5 x 3.2 crystal oscillator.
- Ceramic package with a seam sealed metal lid, hermetically sealed.
- Please see our CFPS-12 for a 5.0V version of this package.
- Please see our CFPS-37 for a 2.5V version of this package.
- Please see our CFPS-69 for a low current version of this package.
- Fast Make capability: CFPS-9 programmable oscillator as the nearest equivalent fast make model.
- MEMS capability: IQMS-510 series oscillators are the nearest equivalent MEMS model.

Frequency Range

- Frequency 0.5 to 160.0 MHz

Supply Voltage

- Voltage 3.3V $\pm 0.3V$

Ageing

- Ageing $\pm 3\text{ppm}$ max per year @ 25°C

Output Compatibility & Load

- Output Compatibility CMOS
- Drive Capability 15pF max

Frequency Stabilities

- Frequency Stability $\pm 25\text{ppm}$, $\pm 100\text{ppm}$
(inclusive of supply voltage and output load variations over the operating temperature range)

Operating Temperature Ranges

- 10 to 70°C
- 40 to 85°C

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 disabled the oscillator output goes to the high impedance state
No connection to pad 1 enables oscillator output
Standby Current: 10µA max

Environmental Parameters

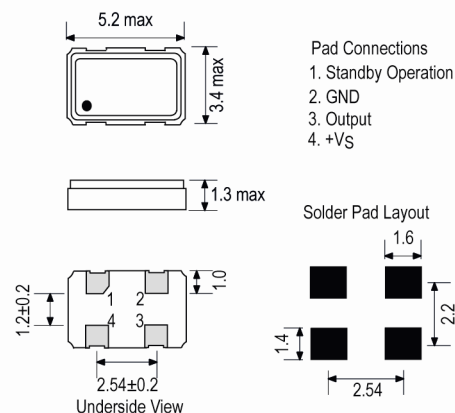
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Ordering Information (*minimum required)

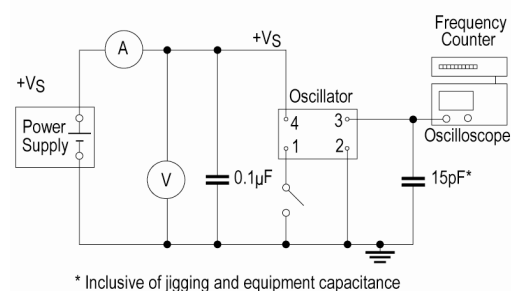
- Frequency*
- Model*
- Output
- Frequency Stability*
- Operating Temperature Range*
- Supply Voltage
- Example:
10.0MHz CFPS-9
CMOS $\pm 50\text{ppm}$ -10 to 70C 3.3V



Outline (mm)



Test Circuit



Sales Office Contact Details:

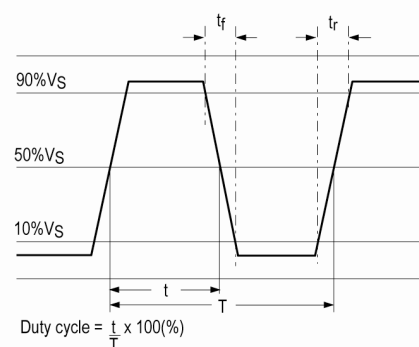
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USA: +1 (0)408.273.4530

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**Packing Details**

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

Wave Form**Electrical Specification - maximum limiting values 3.3V ±0.3V**

Frequency Range	Temp Range	Stability Inclusive		Current Draw	Rise & Fall (10 to 90%)	Duty Cycle %
		Min	Max			
0.5 to 9.999999MHz	-10 to 70°C	±25ppm	±100ppm	20.0mA	10ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	20.0mA	10ns	40/60%
10.0 to 19.999999MHz	-10 to 70°C	±25ppm	±100ppm	20.0mA	10ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	20.0mA	10ns	40/60%
20.0 to 31.999999MHz	-10 to 70°C	±25ppm	±100ppm	20.0mA	10ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	20.0mA	10ns	40/60%
32.0 to 49.999999MHz	-10 to 70°C	±25ppm	±100ppm	20.0mA	10ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	20.0mA	10ns	40/60%
50.0 to 79.999999MHz	-10 to 70°C	±25ppm	±100ppm	30.0mA	8ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	30.0mA	8ns	40/60%
80.0 to 99.999999MHz	-10 to 70°C	±25ppm	±100ppm	40.0mA	5ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	40.0mA	5ns	40/60%
100.0 to 160.0MHz	-10 to 70°C	±25ppm	±100ppm	50.0mA	4ns	40/60%
	-40 to 85°C	±25ppm	±100ppm	50.0mA	4ns	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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