

ISSUE 6; October 2015

Description

- Standard 5 x 3.2 crystal oscillator. Ceramic package with a seam sealed metal lid, hermetically sealed. Please see our CFPS-9 for a 3.3V version of this package. Please see our CFPS-37 for a 2.5V version of this package. Fast Make capability: CFPP-12 programmable oscillator as 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: $\pm 3\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Supply Voltage: 5.0V $\pm 0.5\text{V}$

Operating Temperature Ranges

- 10 to 70°C
- 40 to 85°C

Output Details

- Output Compatibility: CMOS
- Drive Capability: 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; 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

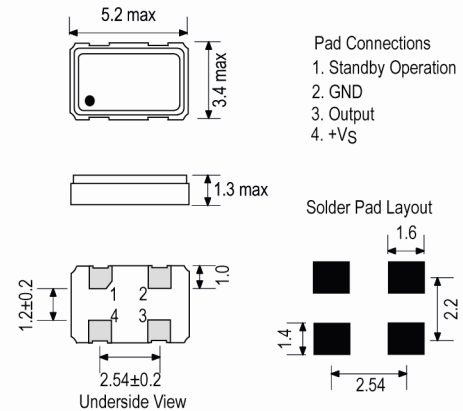
- Frequency*
- Model*
- Output
- Frequency Stability*
- Operating Temperature Range*
- Supply Voltage
- Example:
10.0MHz CFPS-12
CMOS $\pm 50\text{ppm}$ -10 to 70C 5.0V

Compliance

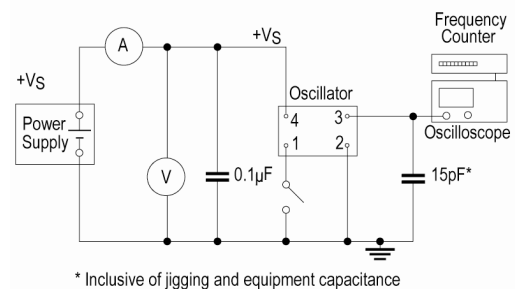
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



Outline (mm)



Test Circuit



Sales Office Contact Details:

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

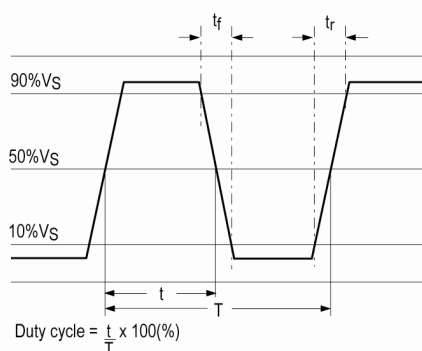
France: 0800 901 383
USA: +1 408.273.4530

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

Packaging Details

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

Wave Form



Electrical Specification - maximum limiting values 5.0V ±0.5V

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
500.0kHz	9.999999MHz	-10 to 70	±25.0	45	10	40/60
		-40 to 85	±25.0	45	10	40/60
10.0MHz	19.999999MHz	-10 to 70	±25.0	45	10	40/60
		-40 to 85	±25.0	45	10	40/60
20.0MHz	31.999999MHz	-10 to 70	±25.0	45	10	40/60
		-40 to 85	±25.0	45	10	40/60
32.0MHz	49.999999MHz	-10 to 70	±25.0	45	6	40/60
		-40 to 85	±25.0	45	6	40/60
50.0MHz	79.999999MHz	-10 to 70	±25.0	50	5	40/60
		-40 to 85	±25.0	50	5	40/60
80.0MHz	100.0MHz	-10 to 70	±25.0	60	5	40/60
		-40 to 85	±25.0	60	5	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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