



ISSUE 10; February 2012 - RoHS 2011/65/EU

**Description**

- PLL based, one time only factory programmable for a fast lead time
- Crystal oscillator in a hermetically sealed ceramic package with a metal lid
- See CFPS-39 for standard crystal oscillator alternative
- See IQMS-520 for MEMS oscillator alternative

Frequency Range

- Frequency 1.0 to 110.0MHz

Supply Voltage

- Voltage 3.3V ±10%

Output Compatibility & Load

- Output Compatibility CMOS
- Drive Capability 15pF max

Frequency Stabilities

- Frequency Stability ±20ppm, ±25ppm, ±50ppm

Operating Temperature Ranges

- -20 to 70°C
- -10 to 60°C
- -40 to 85°C

Electrical Parameters

- Standby Current: 10µA max
- Start Up Time: 8ms max

Frequency Stability

- All frequency stabilities are inclusive of tolerance, supply voltage variation, load variation, 1st year ageing, shock and vibration.

Output Control

- 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

Noise Parameter

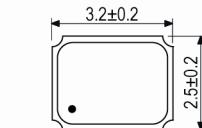
- Period Jitter: 150ps max

Environmental Parameters

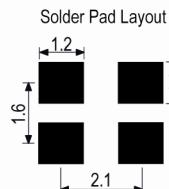
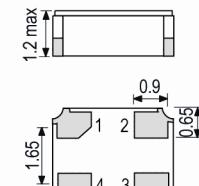
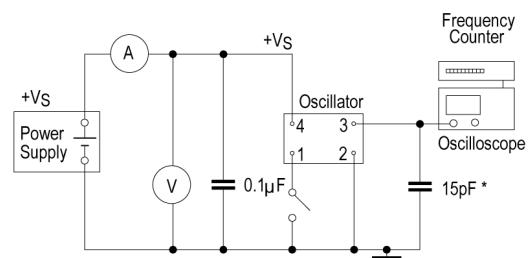
- Storage Temperature Range: -55 to 125°C

Ordering Information (*minimum required)

- Frequency*
- Model*
- Output Compatibility
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- (*minimum required)
- Example
- 20.0MHz CFPP-39
- CMOS ±50ppm -40 to 85C 3.3V

Packing Details**Outline (mm)**

Pad Connections
 1. Standby
 2. GND
 3. Output
 4. +Vs

**Test Circuit**

* Inclusive of jigging and equipment capacitance

Sales Office Contact Details:

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France: Opening 6th March 2012

Email: info@iqdfrequencyproducts.com

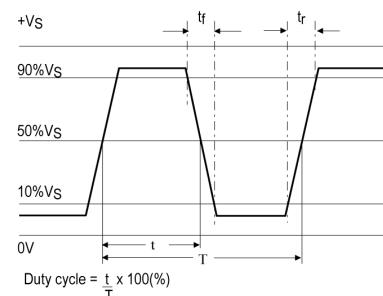
Germany: +49 (0)7264 9145-0

USA: +1 (0) 650 798 5047

Web: www.iqdfrequencyproducts.com



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

Output Waveform**Electrical Specification - maximum limiting values 3.3V ±10%**

Frequency Range	Temp Range	Stability		Current Draw	Rise & Fall (10 to 90%)	Duty Cycle %
		Min	Max			
1.0 to <20.0MHz	-10 to 60°C	±20ppm	±100ppm	10.0mA	5ns	45/55%
	-20 to 70°C	±25ppm	±100ppm	10.0mA	5ns	45/55%
	-40 to 85°C	±50ppm	±100ppm	10.0mA	5ns	45/55%
20.0 to <40.0MHz	-10 to 60°C	±20ppm	±100ppm	15.0mA	5ns	45/55%
	-20 to 70°C	±25ppm	±100ppm	15.0mA	5ns	45/55%
	-40 to 85°C	±50ppm	±100ppm	15.0mA	5ns	45/55%
40.0 to <75.0MHz	-10 to 60°C	±20ppm	±100ppm	15.0mA	5ns	45/55%
	-20 to 70°C	±25ppm	±100ppm	15.0mA	5ns	45/55%
	-40 to 85°C	±50ppm	±100ppm	15.0mA	5ns	45/55%
75.0 to <90.0MHz	-10 to 60°C	±20ppm	±100ppm	20.0mA	5ns	45/55%
	-20 to 70°C	±25ppm	±100ppm	20.0mA	5ns	45/55%
	-40 to 85°C	±50ppm	±100ppm	20.0mA	5ns	45/55%
90.0 to <110.0MHz	-10 to 60°C	±20ppm	±100ppm	25.0mA	5ns	45/55%
	-20 to 70°C	±25ppm	±100ppm	25.0mA	5ns	45/55%
	-40 to 85°C	±50ppm	±100ppm	25.0mA	5ns	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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