

ISSUE 10; October 2015

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 our standard crystal oscillator alternative

Frequency Parameters

- Frequency 1.0MHz to 110.0MHz
- Frequency Stability $\pm 20.00\text{ppm}$ to $\pm 100.00\text{ppm}$

Electrical Parameters

- Supply Voltage 3.3V $\pm 10\%$
- Standby Current: 10 μA max
- Start Up Time: 8ms max

Operating Temperature Ranges

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

Output Details

- Output Compatability CMOS
- Drive Capability 15pF max

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 Parameters

- Period Jitter: 150ps max

Environmental Parameters

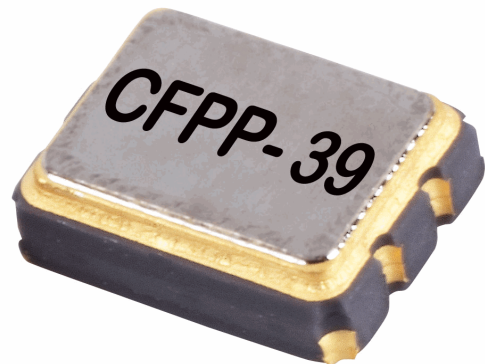
- Storage Temperature Range: -55 to 125°C

Ordering Information

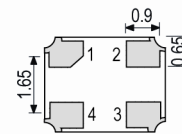
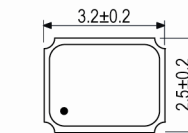
- Frequency*
- Model*
- Output Compatibility
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- (*minimum required)
- Example
- 20.0MHz CFPP-39
- CMOS $\pm 50\text{ppm}$ -40 to 85C 3.3V

Compliance

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



Outline (mm)

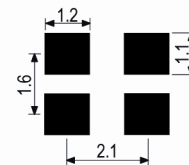


Underside View

Pad Connections

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

Solder Pad Layout



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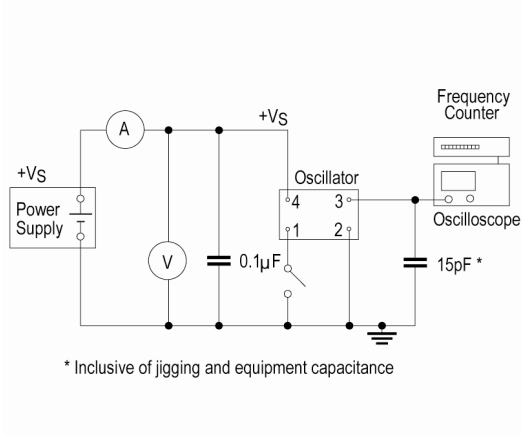
Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

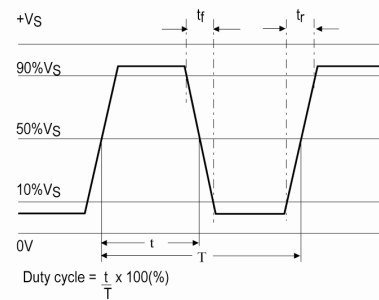
Packaging Details

- 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: 1

Test Circuit



Wave Form



Electrical Specification - maximum limiting values 3.3V ±10%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
1.0MHz	19.999999MHz	-10 to 60	±20.0	10	5	45/55
		-20 to 70	±25.0	10	5	45/55
		-40 to 85	±50.0	10	5	45/55
20.0MHz	39.999999MHz	-10 to 60	±20.0	15	5	45/55
		-20 to 70	±25.0	15	5	45/55
		-40 to 85	±50.0	15	5	45/55
40.0MHz	74.999999MHz	-10 to 60	±20.0	15	5	45/55
		-20 to 70	±25.0	15	5	45/55
		-40 to 85	±50.0	15	5	45/55
75.0MHz	89.999999MHz	-10 to 60	±20.0	20	5	45/55
		-20 to 70	±25.0	20	5	45/55
		-40 to 85	±50.0	20	5	45/55
90.0MHz	110.0MHz	-10 to 60	±20.0	25	5	45/55
		-20 to 70	±25.0	25	5	45/55
		-40 to 85	±50.0	25	5	45/55

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