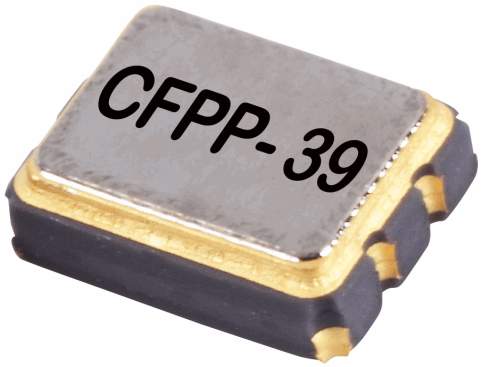
Fast Make Oscillator Specification
CFPP-39

ISSUE 10; June 2016

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 ±20.00ppm to ±100.00ppm

Electrical Parameters

- Supply Voltage 3.3V ±10%
- Standby Current: 10µA 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

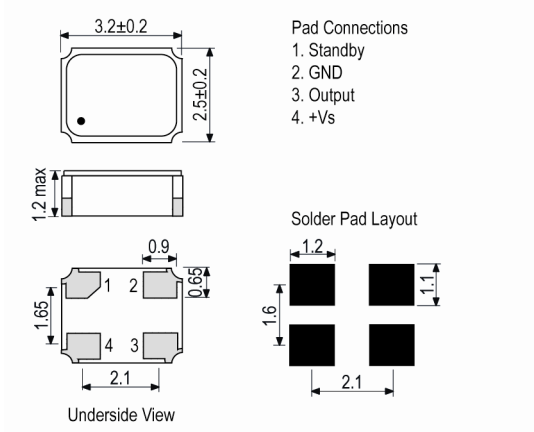
Ordering Information

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

Compliance

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

Outline (mm)



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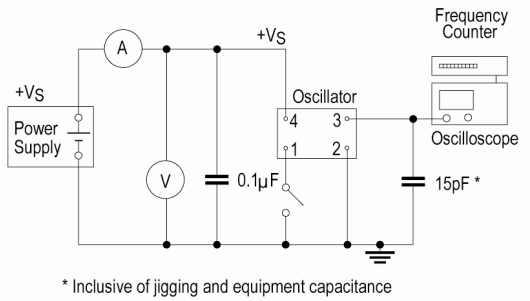
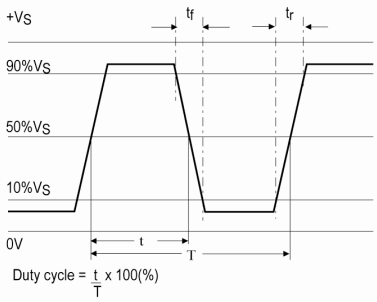
Packaging Details

- 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

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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