

ISSUE 4; October 2015

Description

- Standard 3.2 x 2.5mm crystal oscillator
Ceramic package with a seam sealed metal lid, hermetically sealed
- Fast Make capability: CFPP-39 programmable oscillator is the nearest equivalent fast make model



Frequency Parameters

- Frequency: 2.0MHz to 50.0MHz
- 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: 3.3V $\pm 10\%$

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
Start-Up Time: 10ms 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

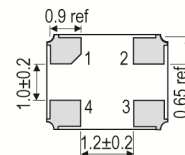
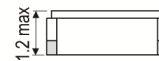
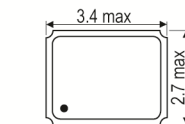
- Frequency*
- Model*
- Output
- Frequency Stability*
- Operating Temperature Range*
- Supply Voltage
- Example
10.0MHz CFPS-39
CMOS $\pm 50\text{ppm}$ -10 to 70C 3.3V

Compliance

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



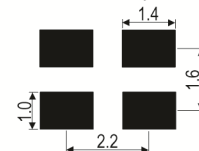
Outline (mm)



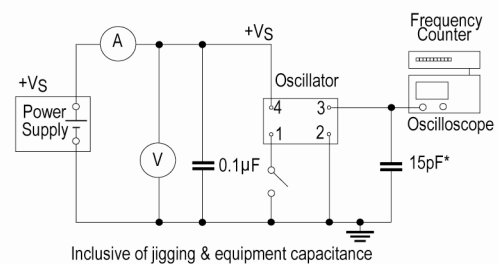
Underside View

- Pad Connections
- Standby Operation
 - GND
 - Output
 - +Vs

Solder Pad Layout



Test Circuit



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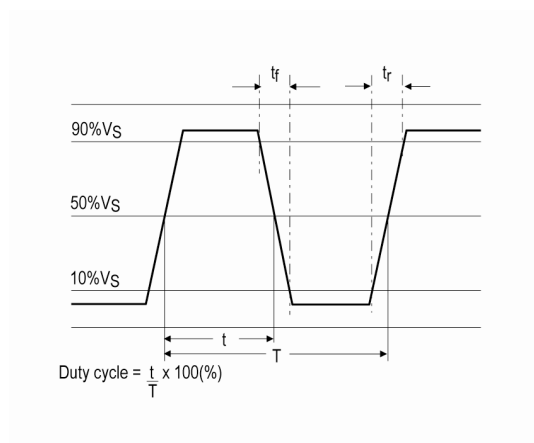
Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

Packaging Details

- Pack Style: Cutt In tape, cut from a reel
Pack Size: 1
- Pack Style: R250 Tape & reel in accordance with EIA-481-D
Pack Size: 250
- 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

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	%
2.0MHz	9.999999MHz	-10 to 70 -40 to 85	±25.0 ±25.0	7 7	5 5	45/55 45/55
10.0MHz	19.999999MHz	-10 to 70 -40 to 85	±25.0 ±25.0	7 7	5 5	45/55 45/55
20.0MHz	31.999999MHz	-10 to 70 -40 to 85	±25.0 ±25.0	12 12	5 5	45/55 45/55
32.0MHz	50.0MHz	-10 to 70 -40 to 85	±25.0 ±25.0	20 20	5 5	45/55 45/55

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