

ISSUE 10; June 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-12 for standard crystal oscillator alternative

Frequency Parameters

- Frequency 1.0MHz to 150.0MHz
- Frequency Stability $\pm 25.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing $\pm 5\text{ppm}$ max in 1st year @ 25°C

Electrical Parameters

- Load Capacitance (CL) 0.0pF to 50.0pF
- Supply Voltage 5.0V $\pm 0.5\text{V}$

Operating Temperature Ranges

- 0 to 70°C
- 40 to 85°C

Output Details

- Output Compatibility CMOS
- Logic '1' to pad 1 enables oscillator output
- Logic '0' 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

Drive Capability	
0.0MHz to 66.0MHz	50pF
66.0MHz to 150.0MHz	25pF

Noise Parameters

- Jitter pk-pk (max)
 - 1 to 33MHz >33MHz
 - 250ps 175ps
- Jitter pk-pk (typical)
 - 1 to 33MHz >33MHz
 - 100ps 75ps

Environmental Parameters

- Storage Temperature Range: -55 to 125°C

Ordering Information

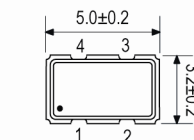
- Frequency*
- Model*
- Output Compatibility
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- Example
 - 20.00MHz CFPP-12
 - CMOS $\pm 50\text{ppm}$ -40 to 85C 5V

Compliance

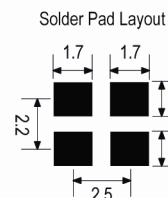
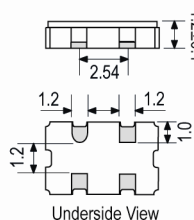
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



Outline (mm)



Pad Connections
 1. N/C or Tri-State
 2. GND
 3. Output
 4. +Vs



Sales Office Contact Details:

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

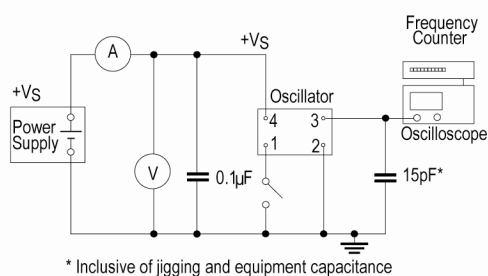
France: 0800 901 383
 USA: +1 408.273.4530

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

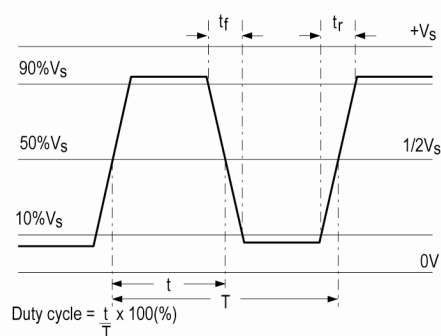
Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- Pack Style: Bulk Loose in bulk pack
Pack Size: 1

Test Circuit



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	%
1.0MHz	40.0MHz	0 to 70	±25.0	45	4	45/55
		-40 to 85	±25.0	45	4	45/55
40.000001MHz	66.0MHz	0 to 70	±25.0	45	4	45/55
		-40 to 85	±25.0	45	4	45/55
66.000001MHz	100.0MHz	0 to 70	±25.0	45	4	40/60
		-40 to 85	±25.0	45	4	40/60
100.000001MHz	133.0MHz	0 to 70	±25.0	45	4	40/60
		-40 to 85	±25.0	45	4	40/60
133.000001MHz	150.0MHz	0 to 70	±25.0	60	4	40/60
		-40 to 85	±25.0	60	4	40/60

This document was correct at the time of printing; please contact your local sales office for the latest version.

[Click to view latest version on our website.](#)

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