Fast Make Oscillator Specification
CFPP-23

ISSUE 11; June 2015

Description

- PLL based, one time only factory programmable for a fast lead time
  Crystal oscillator in a hermetically sealed 8-pin DIL metal package
  See IQXO-825 and IQXO-826 for our standard crystal oscillator alternatives

Frequency Parameters

Frequency	1.0MHz to 150.0MHz
Frequency Stability	±25.00ppm to ±100.00ppm
Ageing	±5ppm max in 1st year @ 25°C

Electrical Parameters

Supply Voltage	5.0V ±0.5V

Operating Temperature Ranges

- 0 to 70°C
- -40 to 85°C

Output Details

Output Compatability	CMOS

- Logic '1' to pin 1 enables oscillator output
  Logic '0' to pin 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
  No connection to pin 1 enables oscillator output

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

Noise Parameters

- Jitter pk-pk (typical)

1 to 33MHz	>33MHz
100ps	75ps

- Jitter pk-pk (max)

1 to 33MHz	>33MHz
250ps	175ps

Environmental Parameters

- Storage Temperature Range: –55 to 125°C

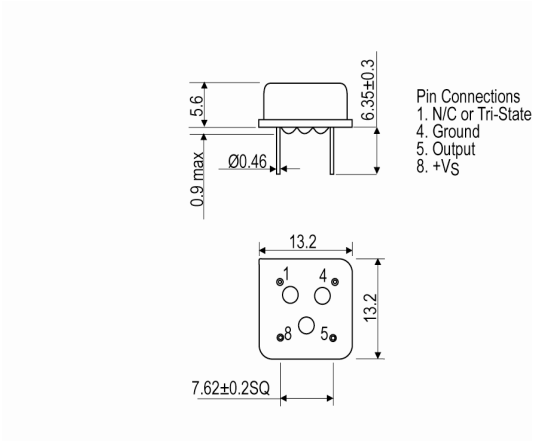
Ordering Information

- Frequency*
  Model*
  Output Compatibility
  Frequency Stability (over operating temperature range)*
  Operating Temperature Range*
  Supply Voltage
- Example
  20.00MHz CFPP-23
  CMOS ±50ppm –40 to 85C 5.0V

Compliance

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

Outline (mm)



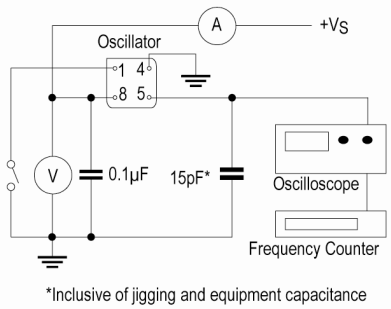
Sales Office Contact Details:

UK: +44 (0)1460 270200
France: 0800 901 383
Email: info@iqdfrequencyproducts.com
Germany: 0800 1808 443
USA: +1 408.273.4530
Web: www.iqdfrequencyproducts.com

Packaging Details

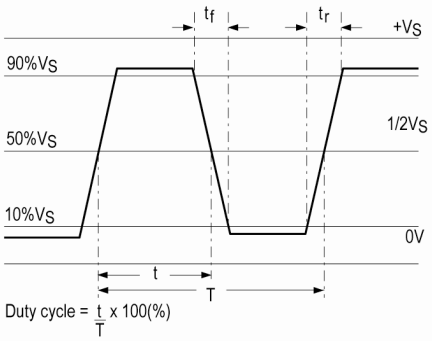
- Pack Style: Bulk Loose in bulk pack
  Pack Size: 1

Test Circuit



*Inclusive of jigging and equipment capacitance

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
133.0MHz	150.0MHz	-40 to 85	±50.0	60	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
France: 0800 901 383
Email: info@iqdfrequencyproducts.com
Germany: 0800 1808 443
USA: +1 408.273.4530
Web: www.iqdfrequencyproducts.com