

#### ISSUE 2; October 2015

#### Description

Please note: This document is intended to illustrate the general capability and versatility of IQD's design. For specific enquiries please contact one of IQD's sales offices where we can tailor a unique specification to meet your needs. Wide pulling ranges available.

# **Frequency Parameters**

1.0MHz to 800.0MHz Frequency ±15.00ppm to ±100.00ppm Frequency Stability

Nominal Frequency (f0) reference: Temperature = 25°C ±3°C Control Voltage = Mid point Ageing (typical): ±3ppm per year

**Electrical Parameters** 

Supply Voltage: Available in 5.0V and 3.3V (Lower then 3.3V is available on request)

Typical Supply Current Draw (sinewave): Frequency @Vs=3.3V @Vs=5.0V <15.0MHz 15mA 20mA <80.0MHz 35mA 50mA <190.0MHz 45mA 70mA

# <500.0MHz 100mA **Frequency Adjustment**

Pulling ±50 or ±100 or ±150ppm

100mA

Control Voltage Range: For 3.3V supply =  $1.65V \pm 1.5V$ For 5.0V supply =  $2.5V \pm 2.0V$ 

Frequency Adjustment Range options:

±50ppm min ±100ppm min ±150ppm min

For wider pulling range please contact our sales offices

## **Operating Temperature Ranges**

-10 to 60°C

-20 to 70°C

-40 to 85°C

## **Output Details**

**Output Compatability** HCMOS/Sinewave

**Drive Capability** 50ohms

Sinewave Output Level (ref 50ohm): @3.3V 0dBm typ

@5.0V 5dBm typ

HCMOS Output Levels (ref 15pF):

VoH <90% Vs VoL <10% Vs Duty Cycle 40/60%

Rise and fall time: 10ns max

## **Environmental Parameters**

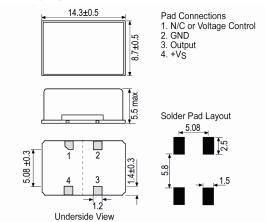
Storage Temperature: -55 to 105°C

Shock: MIL-STD-883C, Method 2002, Condition B

Vibration: MIL-STD-883C, Method 2007, Condition A



#### Outline (mm)



## **Sales Office Contact Details:**

UK: +44 (0)1460 270200 France: 0800 901 383 Germany: 0800 1808 443 USA: +1.760.318.2824 Email: info@iqdfrequencyproducts.com Web: www.iqdfrequencyproducts.com





# **Ordering Information**

Minimum data needed to open an enquiry:-

Frequency

Model

Supply Voltage

Frequency Stability (over operating temperature range)

**Operating Temperature Range** 

Pullability

## Compliance

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

# **Packaging Details**

■ Pack Style: Reel

Tape & reel in accordance with EIA-481-D

Pack Size: 600

■ Pack Style: Bulk

Supplied tube or box packaging

Pack Size: 1

# **Electrical Specification - maximum limiting values**

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
1.0MHz	800.0MHz	-10 to 60	±15.0	-	-	-
		-20 to 70	±20.0	-	-	-
		-40 to 85	±30.0	-	-	-

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.