

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

- Frequency 1.0MHz to 800.0MHz
- Frequency Stability $\pm 15.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Nominal Frequency (f_0) reference:
 Temperature = $25^\circ\text{C} \pm 3^\circ\text{C}$
 Control Voltage = Mid point
- Ageing (typical): $\pm 3\text{ppm}$ per year

Electrical Parameters

- Supply Voltage: Available in 5.0V and 3.3V (Lower than 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	100mA

Frequency Adjustment

- Pulling ± 50 or ± 100 or $\pm 150\text{ppm}$
- Control Voltage Range:
 For 3.3V supply = $1.65\text{V} \pm 1.5\text{V}$
 For 5.0V supply = $2.5\text{V} \pm 2.0\text{V}$
- Frequency Adjustment Range options:
 $\pm 50\text{ppm}$ min
 $\pm 100\text{ppm}$ min
 $\pm 150\text{ppm}$ min
 For wider pulling range please contact our sales offices

Operating Temperature Ranges

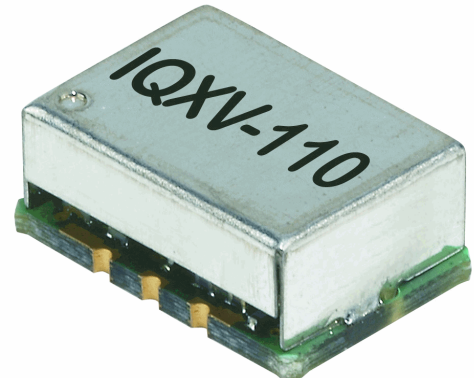
- -10 to 60°C
- -20 to 70°C
- -40 to 85°C

Output Details

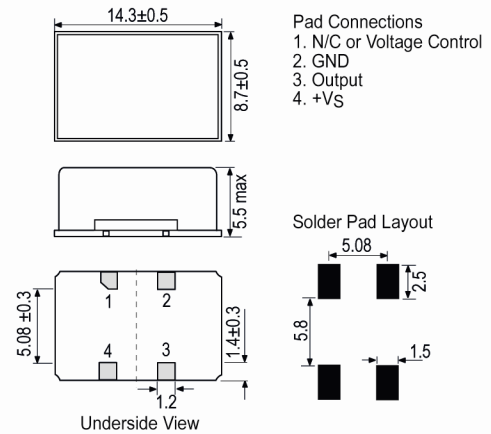
- Output Compatibility HCMOS/Sinewave
- Drive Capability 50ohms
- Sinewave Output Level (ref 50ohm):
 @3.3V 0dBm typ
 @5.0V 5dBm typ
- HCMOS Output Levels (ref 15pF):
 VoH <90% Vs
 VoL <10% Vs
 Duty Cycle 40/60%
 Rise and fall time: 10ns max

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:

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 Germany: 0800 1808 443

France: 0800 901 383
 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) Compliant
- REACH Status Compliant
- MSL Rating (JEDEC-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.](#)

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