

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 @ $V_s=3.3\text{V}$ @ $V_s=5.0\text{V}$

<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

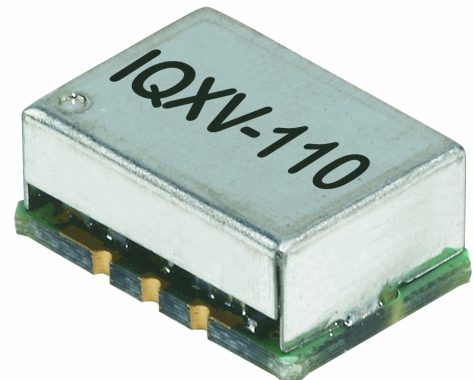
- 10 to 60°C
- 20 to 70°C
- 40 to 85°C

Output Details

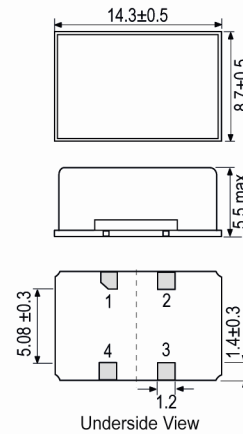
- Output Compatibility: HCMOS/Sinewave
- Drive Capability: 50ohms
- Sinewave Output Level (ref 50ohm):
@3.3V 0dBm typ
@5.0V 5dBm typ
- HCMOS Output Levels (ref 15pF):
 - VoH < 90% Vs
 - VoL < 10% Vs
 - Duty Cycle 40/60%
 - Rise and fall time: 10ns max

Environmental Parameters

- Storage Temperature: -55 to 105°C
- Shock: MIL-STD-883C, Method 2002, Condition B
- Vibration: MIL-STD-883C, Method 2007, Condition A

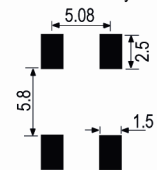


Outline (mm)



Pad Connections
 1. N/C or Voltage Control
 2. GND
 3. Output
 4. +VS

Solder Pad Layout



Sales Office Contact Details:

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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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