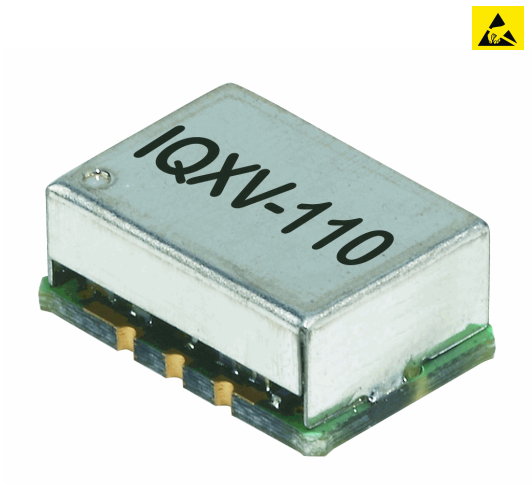
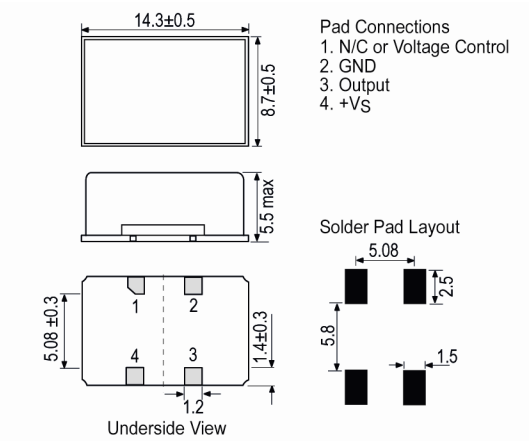
ISSUE 2; September 2014 - RoHS 2011/65/EU

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.



Outline (mm)



Frequency Parameters

- Frequency 1.0MHz to 800.0MHz
- Frequency Stability ±15.00ppm to ±100.00ppm
- 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	100mA

Frequency Adjustment

- Pulling ±50, ±100 or ±150ppm
- Control Voltage Range:
  For 3.3V supply = 1.65V ±1.5V
  For 5.0V supply = 2.5V ±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 or 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

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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 Compliant
- REACh Status Compliant
- 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 0.0V

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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