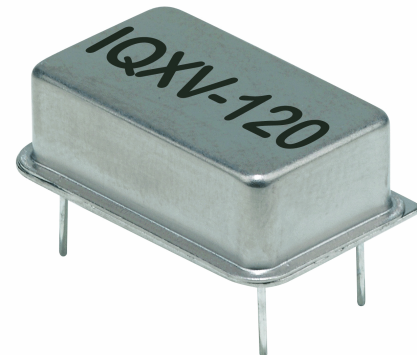




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Description

- 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
<25.0MHz 15mA 20mA
<80.0MHz 35mA 50mA
<190.0MHz 45mA 70mA
<500.0MHz 100mA 100mA

Frequency Adjustment

- Pulling ± 50 , ± 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

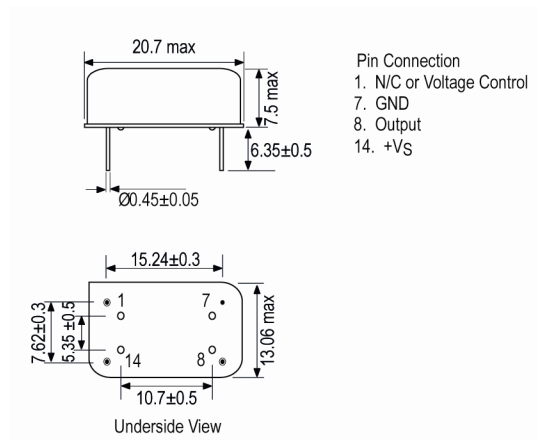
Output Details

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

Environmental Parameters

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

Outline (mm)



Sales Office Contact Details:

UK: +44 (0)1460 270200

France: +33 (0)5 34 50 91 18

Email: info@iqdfrequencyproducts.com

Germany: +49 (0) 30 408 192 300

USA: +1 408.273.4530

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
 - Output type
 - Pullability

Compliance

- RoHS Status Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Bulk Supplied tube or box packaging
- Pack Size: 120

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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