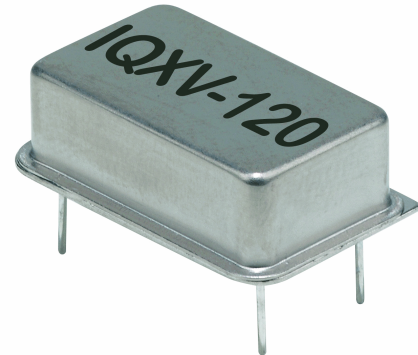


ISSUE 2; June 2019

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

| | | |
|-----------|-------|-------|
| <25.0MHz | 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

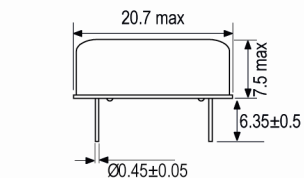
Output Details

- Output Compatibility: HCMOS/Sinewave
- Drive Capability: 50ohms
- 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

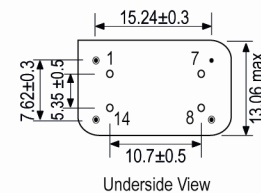
Environmental Parameters

- 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)



Pin Connection
 1. N/C or Voltage Control
 7. GND
 8. Output
 14. +Vs



Sales Office Contact Details:

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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
 - Output type
 - Pullability

Compliance

- RoHS Status (2015/863/EU) 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

| 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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