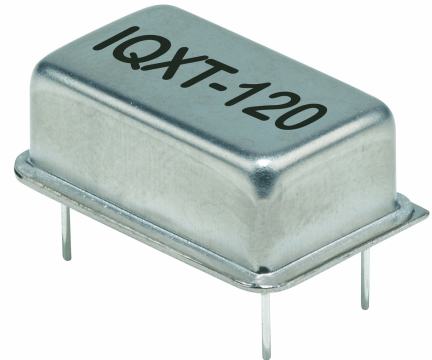


ISSUE 2; October 2015

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.
 Hermetically Sealed TCXO in an industry standard 14pin DIL package
 Tuning range available.



Frequency Parameters

- Frequency 1.0MHz to 800.0MHz
- Frequency Stability $\pm 0.28\text{ppm}$ to $\pm 2.00\text{ppm}$
- Frequency Stability Options:
 - $\pm 0.28\text{ppm}$ max
 - $\pm 0.5\text{ppm}$ max
 - $\pm 1.0\text{ppm}$ max
 - $\pm 1.5\text{ppm}$ max
 - $\pm 2.0\text{ppm}$ max
 Other combinations possible please contact Sales office
- Ageing (typical): $\pm 1\text{ppm}$ in the first year, $\pm 3\text{ppm}$ after 10 years
- Typical Frequency vs Supply Voltage Change:
 $V_s \pm 5\% = \pm 0.1\text{ppm}$ max to $\pm 0.3\text{ppm}$ max
- Typical Frequency vs Load Change:
 $15\text{pF} \pm 10\% = \pm 0.2\text{ppm}$

Electrical Parameters

- Supply Voltage: Available in 5.0V and 3.3V (Lower than 3.3V is available on request)
- Typical Supply Current Draw:
 Frequency Current draw
 - @1.0kHz 5mA
 - @40.0MHz 30mA
 - @800.0MHz 100mA

Frequency Adjustment

- Frequency Adjustment Range options:
 - $\pm 5\text{ppm}$ min
 - $\pm 10\text{ppm}$ min
 - $\pm 20\text{ppm}$ min (limited availability)
 - No pulling option
- Control Voltage Range:
 For 3.3V supply = $1.65\text{V} \pm 1.5\text{V}$
 For 5.0V supply = $2.5\text{V} \pm 2.0\text{V}$

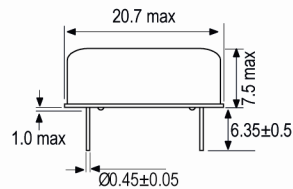
Operating Temperature Ranges

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

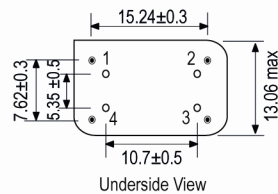
Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF typ

Outline (mm)



- Pin Connection
1. Voltage Control or N/C
 2. GND
 3. Output
 4. +Vs



Sales Office Contact Details:

UK: +44 (0)1460 270200
 Germany: 0800 1808 443

France: 0800 901 383
 USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com
 Web: www.iqdfrequencyproducts.com

Noise Parameters

- Typical Phase Noise Figures @ 20.0MHz:
 Offset Typical
 10Hz -80dBc
 100Hz -120dBc
 1kHz -140dBc
 10kHz -150dBc
 100kHz -155dBc

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-883C, Method 2002, Condition B
- Vibration: MIL-STD-883C, Method 2007, Condition A

Ordering Information

- Minimum Enquiry Information:
 Frequency
 Model
 Supply Voltage
 Output
 Frequency Stability (over operating temperature range)
 Operating Temperature Range
 Frequency Adjustment

Compliance

- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): 1

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 | ±0.28 | - | 10 | 40/60 |
| | | -20 to 70 | ±0.28 | - | 10 | 40/60 |
| | | -40 to 85 | ±0.5 | - | 10 | 40/60 |

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.](#)

Sales Office Contact Details:

UK: +44 (0)1460 270200
 Germany: 0800 1808 443

France: 0800 901 383
 USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com
 Web: www.iqdfrequencyproducts.com