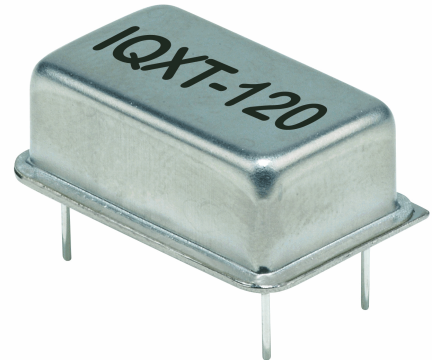


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**Description**

- 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.  
 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 =  $2.5\text{V } \pm 2.0\text{V}$

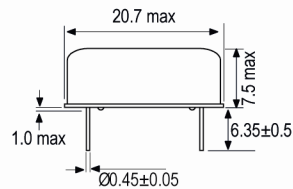
**Operating Temperature Ranges**

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

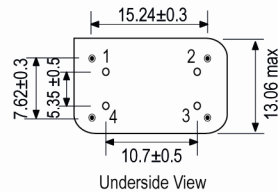
**Output Details**

- 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](mailto:info@iqdfrequencyproducts.com)  
 Web: [www.iqdfrequencyproducts.com](http://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.](#)

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