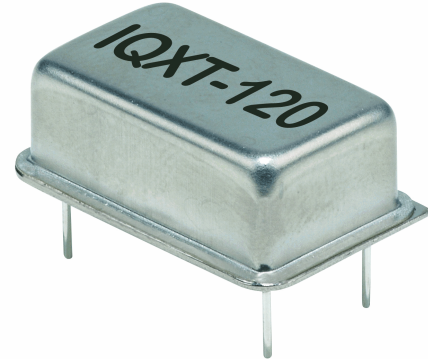


ISSUE 2; June 2019

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

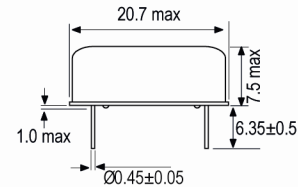
### Operating Temperature Ranges

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

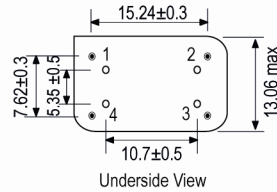
### Output Details

- Output Compatibility: HCMOS
- Drive Capability: 15pF typ

### Outline (mm)



- Pin Connection
- Voltage Control or N/C
  - GND
  - Output
  - +VS



### Sales Office Contact Details:

UK: +44 (0)1460 270200

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 (2015/863/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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