



### Description

- Temperature compensated crystal oscillator (TCXO)
- Model: IQXT-200-1-B
- Model Issue number: 1

### Frequency Parameters

- Frequency: 19.20MHz
- Frequency Tolerance @ 25°C: ±0.50ppm
- Frequency Stability: ±0.28ppm
- Operating Temperature Range: -20.00 to 70.00°C
- Ageing: ±0.02ppm max per day, ±1ppm max per year
- Supply Voltage Variation (measurement referenced to frequency observed with TA=25°C, Vs varied from 3.13V to 3.47V and load=15pF): ±0.1ppm max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V and load=15pF): ±0.1ppm max
- Frequency Stability: TA varied from -20°C to 70°C, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, load=15pF and temperature variable speed less than 2°C per minute.
- Short Term Stability (@ 25°C after 10mins power on): 5E-10/s typ @ 10MHz
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V and within 30 days after ex-works): ±0.5ppm
- Ageing: TA=25°C, Vs=3.3V and after 1hr of operation.

### Electrical Parameters

- Supply Voltage: 3.3V
- Supply Voltage Tolerance: ±5%
- Current Draw: 10.00mA max
- Current: TA=25°C, Vs=3.3V and load=15pF

### Output Details

- Output Compatability: HCMOS
- Output Load: 15pF
- Rise and Fall time (10% - 90%): 8ns max
- Duty Cycle: 45/55% max
- Output Low (@ Vs=3.3V, load=15pF): 0.4V max
- Output High (@ Vs=3.3V, load=15pF): 2.4V min

### Noise Parameters

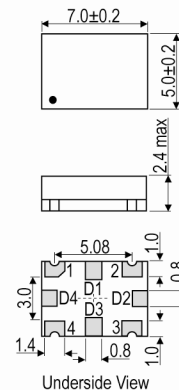
- Phase Noise (@ 10MHz typ):
  - 90dBc/Hz @ 10Hz
  - 115dBc/Hz @ 100Hz
  - 135dBc/Hz @ 1kHz
  - 145dBc/Hz @ 10kHz
  - 148dBc/Hz @ 100kHz
  - 150dBc/Hz @ 1MHz

### Environmental Parameters

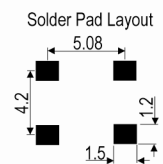
- Shock: IEC 60068-2-27, Test Ea: 100G acceleration for 6ms, sinewave, in 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6, Test Fc: 10Hz-2000Hz, 0.75mm amplitude, 10G acceleration, 30mins per cycle, in 3 mutually perpendicular planes, test duration 2hrs
- Storage Temperature Range: -55 to 105°C
- ESD Level:
  - HBM, Class 2: 2000V to 4000V, JEDEC JS-001-2010
  - Machine Model, Class B: 200V to 400V, JEDEC JS-001-2010



### Outline (mm)



- Pad Connections
- N/C
  - GND
  - Output
  - +Vs
- D1, D2, D3, D4. N/C



### Sales Office Contact Details:

UK: +44 (0)1460 270200

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

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)

Germany: +49 (0)7264 9145-62

USA: +1 408.273.4530

Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)



- Moisture Sensitivity Level: 2
- Maximum Reflow Temperature: 260°C (30secs max)

**Compliance**

- RoHS Status                                      Compliant
- REACH Status                                      Compliant

**Packaging**

- Pack Type: Bulk                                      Loose in bulk pack  
Pack Size    1
- Alternative packing option available

*This document is correct at the time of printing; please contact your local office for the latest version.*

---

**Sales Office Contact Details:**

UK: +44 (0)1460 270200

Germany: +49 (0)7264 9145-62

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

USA: +1 408.273.4530

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)

Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [iqd manufacturer](#):*

Other Similar products are found below :

[LFXTAL071761CUTT](#) [LFMCXO063767BULK](#) [LFMCXO063773BULK](#) [LFOCXO063802BULK](#) [LFOCXO063809BULK](#)  
[LFTCXO063709BULK](#) [LFTCXO063710BULK](#) [LFTCXO063779BULK](#) [LFTCXO070028Cutt](#) [LFTVXO063701BULK](#)  
[LFTVXO063702BULK](#) [LFTVXO063703BULK](#) [LFTVXO063707BULK](#) [LFTVXO063791BULK](#) [LFXTAL003156](#) [LFMCXO063766BULK](#)  
[LFMCXO063771BULK](#) [LFOCXO063816BULK](#) [LFTCXO063713BULK](#) [LFTCXO063714BULK](#) [LFTCXO063716BULK](#)  
[LFTVXO063704BULK](#) [LFTVXO063705BULK](#) [LFTVXO063706BULK](#) [LFTVXO063789BULK](#) [LFTVXO063790BULK](#) [LFXTAL003113](#)  
[LFOCXO063809](#) [LFSPXO009581](#) [LFTCXO063784](#) [LFTVXO063786](#) [LFSPXO009686Bulk](#) [LFRBXO059244Bulk](#) [LFTVXO075802Cutt](#)  
[LFOCXO067293Bulk](#) [LFTCXO075792Cutt](#) [LFMCXO064079BULK](#) [LFSPXO071189](#) [LFOCXO067293](#) [LFXTAL012312BULK](#)  
[LFTCXO063780BULK](#) [LFSPXO056269CUTT](#) [LFOCXO063803BULK](#) [LFSPXO009592CUTT](#) [LFOCXO065520Bulk](#) [LFMISC070550Bulk](#)  
[LFSPXO025494Cutt](#) [LFMCXO064080BULK](#) [LFOCXO063804BULK](#) [LFSPXO019884BULK](#)