



Description

- Temperature compensated voltage controlled crystal oscillator (TCVCXO)
- Model: IQXT-210-3
- Model Issue number: 2

Frequency Parameters

- Frequency: 20.0MHz
- Frequency Tolerance @ 25°C: ±0.50ppm
- Frequency Stability: ±0.14ppm
- Operating Temperature Range: -40.00 to 85.00°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, VC=1.5V and load=15pF): ±0.1ppm max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.5V and load=15pF): ±0.2ppm max
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.5V and within 30 days after ex-works): ±0.5ppm
- Short Term Stability (@ 25°C after 10mins power on): 5E-10/s typ @ 10MHz
- Frequency Stability: TA varied across the operating temperature range, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.5V, load=15pF and temperature variable speed less than 2°C per minute.
- Ageing: TA=25°C, Vs=3.3V, VC=1.5V 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, VC=1.5V and load=15pF

Frequency Adjustment

- Pulling: ±10ppm to ±15ppm
- Control Voltage Details: 1.5V ±1.5V
- Linearity: ±10% max
- Input Impedance: 100kΩ min
- Slope: Positive

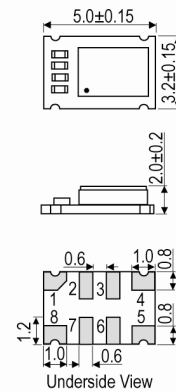
Output Details

- Output Compatibility: HCMOS
- Output Load: 15pF
- Rise and Fall time (10% - 90%): 8ns max
- Duty Cycle: 45/55%
- 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

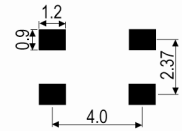
Outline (mm)



Pad Connections

- Voltage Control
- N/C
- N/C
- GND
- Output
- N/C
- N/C
- +Vs

Solder Pad Layout



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

Web: 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](#) [LPMC XO063767BULK](#) [LPMC XO063773BULK](#) [LFOC XO063802BULK](#) [LFOC XO063809BULK](#)
[LFTC XO063709BULK](#) [LFTC XO063710BULK](#) [LFTC XO063779BULK](#) [LFTC XO070028Cutt](#) [LFTV XO063701BULK](#)
[LFTV XO063702BULK](#) [LFTV XO063703BULK](#) [LFTV XO063707BULK](#) [LFTV XO063791BULK](#) [LF XTAL003156](#) [LPMC XO063766BULK](#)
[LPMC XO063771BULK](#) [LFOC XO063816BULK](#) [LFTC XO063713BULK](#) [LFTC XO063714BULK](#) [LFTC XO063716BULK](#)
[LFTV XO063704BULK](#) [LFTV XO063705BULK](#) [LFTV XO063706BULK](#) [LFTV XO063789BULK](#) [LFTV XO063790BULK](#) [LF XTAL003113](#)
[LFOC XO063809](#) [LFSP XO009581](#) [LFTC XO063784](#) [LFTV XO063786](#) [LFSP XO009686Bulk](#) [LFRB XO059244Bulk](#) [LFTV XO075802Cutt](#)
[LFOC XO067293Bulk](#) [LFTC XO075792Cutt](#) [LPMC XO064079BULK](#) [LFSP XO071189](#) [LFOC XO067293](#) [LFXTAL012312BULK](#)
[LFTC XO063780BULK](#) [LFSP XO056269CUTT](#) [LFOC XO063803BULK](#) [LFSP XO009592CUTT](#) [LFOC XO065520Bulk](#) [LFMISC070550Bulk](#)
[LFSP XO025494Cutt](#) [LPMC XO064080BULK](#) [LFOC XO063804BULK](#) [LFSP XO019884BULK](#)