



Description

- Temperature compensated crystal oscillator (TCXO)
- Model: IQXT-210-1
- Model Issue number: 2

Frequency Parameters

- Frequency: 10.0MHz
- 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 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): ±0.2ppm max
- Frequency Stability: TA varied across the operating temperature range, 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 Compatibility: 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

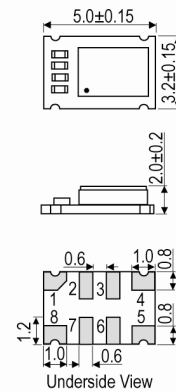
Noise Parameters

- 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, half 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
- Operable Temperature Range: -40 to 85°C

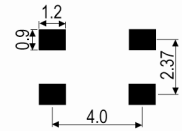
Outline (mm)



Pad Connections

- N/C
- 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 :

[LFX TAL071761CUTT](#) [LFMCXO063767BULK](#) [LFMCXO063773BULK](#) [LFOCXO063802BULK](#) [LFOCXO063809BULK](#)
[LFTCXO063709BULK](#) [LFTCXO063710BULK](#) [LFTCXO063779BULK](#) [LFTCXO070028Cutt](#) [LFTVXO063701BULK](#)
[LFTVXO063702BULK](#) [LFTVXO063703BULK](#) [LFTVXO063707BULK](#) [LFTVXO063791BULK](#) [LFX TAL003156](#) [LFMCXO063766BULK](#)
[LFMCXO063771BULK](#) [LFOCXO063816BULK](#) [LFTCXO063713BULK](#) [LFTCXO063714BULK](#) [LFTCXO063716BULK](#)
[LFTVXO063704BULK](#) [LFTVXO063705BULK](#) [LFTVXO063706BULK](#) [LFTVXO063789BULK](#) [LFTVXO063790BULK](#) [LFX TAL003113](#)
[LFOCXO063809](#) [LFSPXO009581](#) [LFTCXO063784](#) [LFTVXO063786](#) [LFSPXO009686Bulk](#) [LFRBXO059244Bulk](#) [LFTVXO075802Cutt](#)
[LFOCXO067293Bulk](#) [LFTCXO075792Cutt](#) [LFMCXO064079BULK](#) [LFSPXO071189](#) [LFOCXO067293](#) [LFX TAL012312BULK](#)
[LFTCXO063780BULK](#) [LFSPXO056269CUTT](#) [LFOCXO063803BULK](#) [LFSPXO009592CUTT](#) [LFOCXO065520Bulk](#) [LFMISC070550Bulk](#)
[LFSPXO025494Cutt](#) [LFMCXO064080BULK](#) [LFOCXO063804BULK](#) [LFSPXO019884BULK](#)