

Customer Part:

Description

- Temperature compensated crystal oscillator (TCXO)
- Model IQXT-210-2
- Model Issue number 3

Frequency Parameters

- Frequency 19.20MHz
- Frequency Tolerance $\pm 0.50\text{ppm}$
- Tolerance Condition @ 25°C & 3.3V
- Frequency Stability $\pm 0.14\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 0.02\text{ppm}$ max per day, $\pm 1\text{ppm}$ max per year
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V and within 30 days after ex-works)
- Frequency Stability: TA varied across the operating temperature range, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, load=10kΩ//10pF and temperature variable speed less than 2°C per minute.
- Ageing: TA=25°C, Vs=3.3V and after 1hr of operation.
- Supply Voltage Variation (measurement referenced to frequency observed with TA=25°C, Vs varied from 3.13V to 3.47V and load=10kΩ//10pF): $\pm 0.1\text{ppm}$ max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V and load=10kΩ//10pF): $\pm 0.1\text{ppm}$ max
- Short Term Stability (@ 25°C after 10mins power on): 5E-10/s typ @ 10MHz

Electrical Parameters

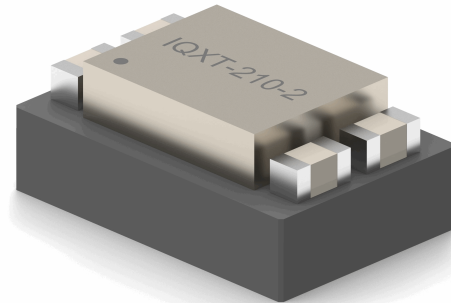
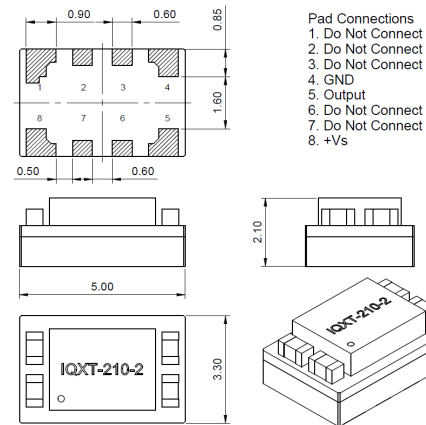
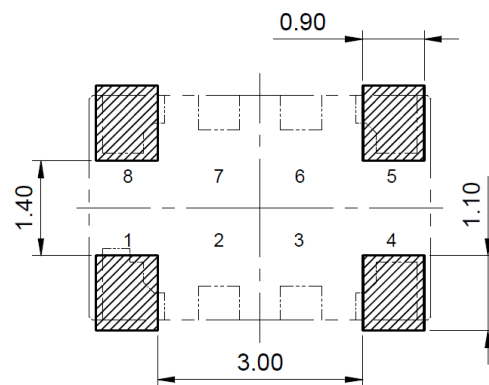
- Supply Voltage 3.3V $\pm 5\%$
- Current Draw 10.000mA
- Current: TA=25°C, Vs=3.3V and load=10kΩ//10pF

Output Details

- Output Compatibility Clipped Sine
- Drive Capability 10kΩ//10pF
- Output Levels: 0.8V pk-pk 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)

Recommended Solder Pad Layout

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
 Web: www.iqdfrequencyproducts.com

Customer Part:**Environmental Parameters**

- 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
- 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

Manufacturing Details

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

Compliance

- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): 2

Packaging Details

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

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
Web: www.iqdfrequencyproducts.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [TCXO Oscillators](#) category:

Click to view products by [IQD](#) manufacturer:

Other Similar products are found below :

[SiT5000AI-3D-33E0-10.000000X](#) [THD3031035LK280005-10.0M](#) [AST3TDATAACJ5-10.0000MHz](#) [AST3TDATAACJ5-20.0000MHz](#)
[AST3TDA53TACJ2-19.2000MHz](#) [AST3TDA53TACJ2-38.8800MHz](#) [AST3TDATAACJ5-19.2000MHz](#) [AST3TDATAACJ5-38.8800MHz](#)
[SiT5155AI-FK-33E0-10.000000F](#) [CVT32-10.000](#) [SIT5356AI-FQ-33E0-25.000000X](#) [SIT5357AI-FQ-33N0-100.000000X](#) [DS32KHZSN+T&R](#)
[XTCLH25M000THJA0P0](#) [LFTCXO075793Cutt](#) [LFTCXO077229Cutt](#) [LFPTXO000002Bulk](#) [LFTCXO077228Cutt](#) [LFTCXO077230Cutt](#)
[LFTCXO075792Cutt](#) [AST3TQ53-T-10.000MHz-5-C](#) [ATX-11-F-26.000MHz-F05-T](#) [ATX-11-F-27.000MHz-F05-T](#) [ATX-12-F-32.000MHz-](#)
[F05-T](#) [ATX-13-F-26.000MHz-F05-T](#) [I538-2O7- 25.000 MHz](#) [I537-2O7- 39.000 MHz](#) [I537-2O7- 25.000 MHz](#) [ECS-TXO-2016-33-320-TR](#)
[ECS-TXO-2016-33-120-TR](#) [ECS-TXO-2016-33-250-TR](#) [ECS-TXO-2016-33-200-TR](#) [ECS-TXO-20CSMV-AC-260-AY-TR](#) [TG2016SMN](#)
[26.0000M-MCGNNM0](#) [TG2016SMN 25.0000M-MCGNNM0](#) [TG2016SMN 25.0000M-MCGNNM3](#) [TG2520SMN 16.0000M-MCGNNM0](#)
[TG2520SMN 25.0000M-MCGNNM0](#) [TG2520SMN 40.0000M-ECGNNM0](#) [TG2520SMN 24.0000M-ECGNNM0](#) [TG2520SMN 20.0000M-](#)
[MCGNNM0](#) [TG2520SMN 30.0000M-ECGNNM0](#) [TG2520SMN 30.000M-MCGNNM0](#) [TG2520SMN 27.0000M-MCGNNM3](#) [TG2520SMN](#)
[32.0000M-MCGNNM3](#) [TG2520SMN 32.0000M-ECGNNM3](#) [LFPTXO000001Bulk](#) [LFTCXO063711BULK](#) [LFTCXO063713BULK](#)
[LFTCXO063715BULK](#)