



### Description

- Temperature compensated crystal oscillator (TCXO)
- Model: IQXT-210-2
- 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 and load=10kΩ//10pF): ±0.1ppm max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V and load=10kΩ//10pF): ±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=10kΩ//10pF 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=10kΩ//10pF

### Output Details

- Output Compatability: Clipped Sine
- Output Load: 10kΩ//10pF
- Output Levels: 0.8V pk-pk min

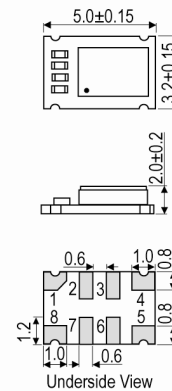
### Noise Parameters

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

### 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
- ESD Level:
  - HBM, Class 2: 2000V to 4000V, JEDEC JS-001-2010
  - Machine Model, Class B: 200V to 400V, JEDEC JS-001-2010
- Moisture Sensitivity Level: 2

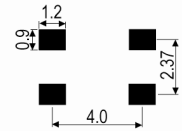
### Outline (mm)



### Pad Connections

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

### Solder Pad Layout



### Sales Office Contact Details:

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- 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.*

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