



### Description

- Temperature compensated voltage controlled crystal oscillator (TCVCXO)
- Model: IQXT-200-4-B
- Model Issue number: 1

### Frequency Parameters

- Frequency: 10.0MHz
- 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, VC=1.65V and load=10kΩ//10pF): ±0.1ppm max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and load=10kΩ//10pF): ±0.1ppm max
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V 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 from -20°C to 70°C, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V, load=10kΩ//10pF and temperature variable speed less than 2°C per minute.
- Ageing: TA=25°C, Vs= 3.3V, VC=1.65V 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=1.65V and load=10kΩ//10pF

### Frequency Adjustment

- Pulling: ±10ppm to ±15ppm
- Control Voltage Details: 1.65V ±1.65V
- Linearity: ±10% max
- Input Impedance: 100kΩ min
- Slope: Positive

### Output Details

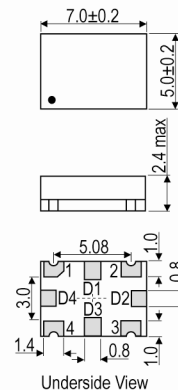
- Output Compatibility: Clipped Sine
- Output Load: 10kΩ//10pF
- Output Level: 0.8V pk-pk min

### Noise Parameters

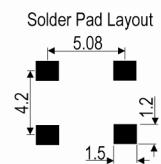
- Phase Noise (@ 10MHz typ):
  - 90dBc/Hz @ 10Hz
  - 115dBc/Hz @ 100Hz
  - 135dBc/Hz @ 1kHz
  - 145dBc/Hz @ 10kHz
  - 148dBc/Hz @ 100kHz
  - 150dBc/Hz @ 1MHz



### Outline (mm)



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



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**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

**Manufacturing Details**

- 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.*

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