

**Customer Part:**

**Description**

- Temperature compensated crystal oscillator (TCXO)
- 8 pad version
- Model IQXT-200-2-B
- Model Issue number 1

**Frequency Parameters**

- Frequency 10.0MHz
- Frequency Tolerance  $\pm 0.50\text{ppm}$
- Tolerance Condition @ 25°C & 3.3V
- Frequency Stability  $\pm 0.28\text{ppm}$
- Operating Temperature Range -20.00 to 70.00°C
- Ageing  $\pm 0.02\text{ppm}$  max per day,  
 $\pm 1.0\text{ppm}$  max per year
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V and within 30 days after ex-works):  $\pm 0.5\text{ppm}$
- Frequency Stability: TA varied over temperature, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, load=10k $\Omega$ //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=10k $\Omega$ //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=10k $\Omega$ //10pF):  $\pm 0.1\text{ppm}$  max
- Short Term Stability (@ 25°C after 10mins power on): 5E-10/s typ @ 10MHz

**Electrical Parameters**

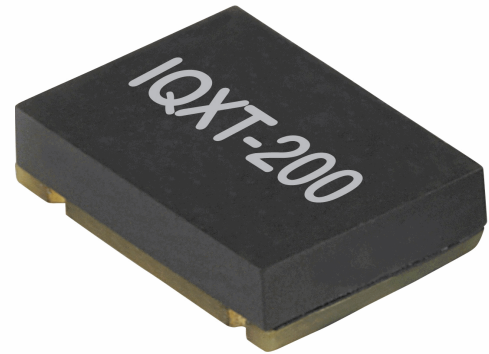
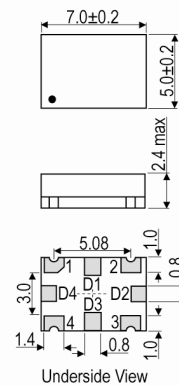
- Supply Voltage 3.3V  $\pm 5\%$
- Current Draw 10.000mA
- Current: TA=25°C, Vs=3.3V and load=10k $\Omega$ //10pF

**Output Details**

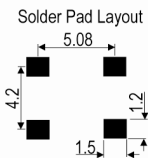
- Output Compatibility Clipped Sine
- Drive Capability 10k $\Omega$ //10pF
- Output Level: 0.8V pk-pk min

**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
1. N/C
  2. GND
  3. Output
  4. +Vs
- D1, D2, D3, D4. N/C


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**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, 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**

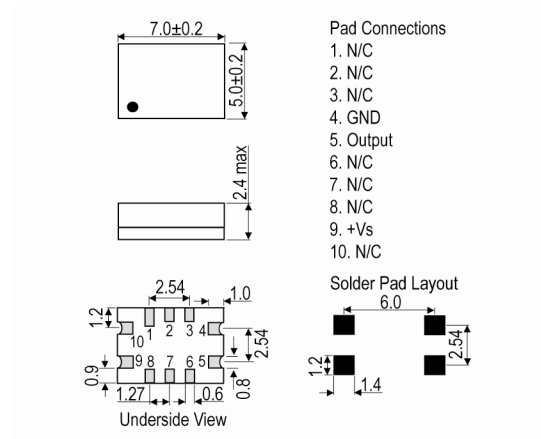
- RoHS Status (2015/863/EU)      Compliant
- REACH Status                      Compliant
- MSL Rating (JDEC-STD-033):    2

**Packaging Details**

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



**Outline (mm) -A = 10 pad version**



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