


**Description**

- IQXT-205-3-18 is a 2.0 x 1.6mm SMD Temperature Compensated Crystal Oscillator (TCXO) in a hermetically sealed package with a wide operating temperature range.
- Model IQXT-205-3-18
- Model Issue number 1
- Developed frequencies: 16.368, 16.369, 19.2, 26.0, 33.6, 38.4 and 52.0MHz

**Frequency Parameters**

- Frequency 16.3690MHz
- Frequency Tolerance Max  $\pm 1.50$ ppm
- Tolerance Condition @ 25°C  $\pm 2^\circ\text{C}$
- Frequency Stability  $\pm 0.50$ ppm
- Operating Temperature Range -40.00 to 105.00°C
- Ageing  $\pm 1$ ppm max per year @ 25°C  $\pm 2^\circ\text{C}$
- Frequency Tolerance: Referred to nominal frequency before reflow soldering.
- IR Reflow Resistance (@ 25°C  $\pm 2^\circ\text{C}$  ref to frequency before reflow):  $\pm 1$ ppm max, 24hrs after reflow
- Supply Voltage Variation (@  $\pm 5\%$  change):  $\pm 0.1$ ppm max
- Load Variation (@  $\pm 10\%$  change):  $\pm 0.1$ ppm max

**Electrical Parameters**

- Supply Voltage 1.8V  $\pm 5\%$
- Current Draw Max 1.500mA
- Absolute Maximum Ratings: Supply Voltage: -0.6V to 4.6V

**Output Details**

- Output Compatibility Clipped Sine
- Drive Capability 10k $\Omega$ //10pF
- Output: DC coupled
- Output Level: 0.8V pk-pk min
- Start Up Time (90% of V pk-pk): 2ms max
- Start Up Time (within  $\pm 0.5$ ppm): 2ms max

**Noise Parameters**

- Phase Noise (typ): -135dBc/Hz @ 1kHz

**Environmental Parameters**

- Storage Temperature Range: -40 to 105°C

**Manufacturing Details**

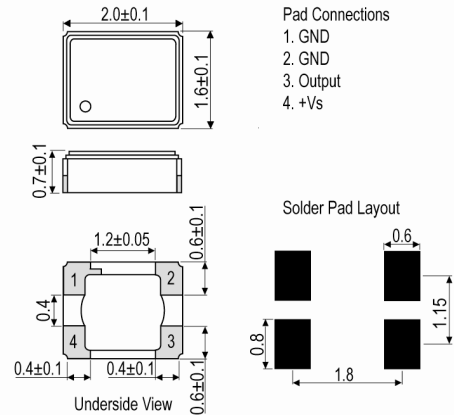
- RoHS Terminations NiAu
- RoHS Reflow Temp +250°C  $\pm 10^\circ\text{C}$  for 10 sec max

**Compliance**

- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- *Alternative packing option available*

**Outline (mm)**

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