

Customer Part:

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

Frequency Parameters

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

Electrical Parameters

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

Output Details

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

Noise Parameters

- Phase Noise (typ): $-135\text{dBc}/\text{Hz}$ @ 1kHz

Environmental Parameters

- Storage Temperature Range: -40 to 105°C

Manufacturing Details

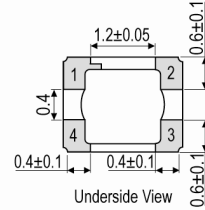
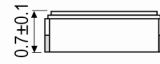
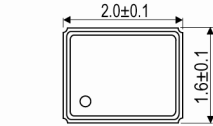
- RoHS Terminations NiAu
- RoHS Reflow Temp $+250^\circ\text{C} \pm 10^\circ\text{C}$ for 10 sec max

Compliance

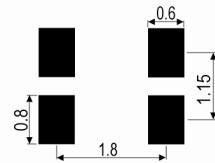
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): 2

Packaging Details

- Pack Style: *Cutt* *Cut tape*
- Pack Size: 100
- *Alternative packing option available*

Outline (mm)

Pad Connections

1. GND
2. GND
3. Output
4. +Vs

Solder Pad Layout

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