



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Description

- IQXT-225 is a 2.0 x 1.6mm SMD Temperature Compensated Crystal Oscillator (TCXO) in a hermetically sealed package with E/D on pad 1 for low power operation.
- Model IQXT-225-12
- Model Issue number 1
- Developed frequencies: 16.368, 16.369, 19.2, 26.0, 33.6 and 38.4MHz

Frequency Parameters

- Frequency 16.3690MHz
- Frequency Tolerance Max $\pm 1.50\text{ppm}$
- Frequency Stability $\pm 0.50\text{ppm}$
- Operating Temperature Range -30.00 to 85.00°C
- Ageing $\pm 1\text{ppm}$ max per year @ 25°C $\pm 2^\circ\text{C}$
- Frequency Tolerance: @ $25^\circ\text{C} \pm 2^\circ\text{C}$ referred to nominal frequency before reflow soldering.
- Supply Voltage Variation (@ $\pm 5\%$ change): $\pm 0.1\text{ppm}$ max
- Load Variation (@ $\pm 10\%$ change): $\pm 0.1\text{ppm}$ max
- Reflow Variation (at $25^\circ\text{C} \pm 2^\circ\text{C}$ referred to frequency before reflow): $\pm 1\text{ppm}$ max, 24 hrs after reflow.

Electrical Parameters

- Supply Voltage $1.2\text{V} \pm 5\%$
- Current Draw Max 1.700mA
- Absolute Maximum Ratings:
Supply Voltage: -0.6V to 4.6V
E/D Control Voltage: -0.6V to $V_s + 0.6\text{V}$ (4.6V max)

Output Details

- Output Compatibility Clipped Sine
- Drive Capability $10\text{k}\Omega / 10\text{pF} \pm 10\%$
- Output: DC coupled
Note: a 1000pF DC-cut capacitor is to be connected in the output line of the TCXO.
- Output Level: 0.8V pk-pk min
- Start Up Time: $V_{\text{out}} \geq 90\%$ of V pk-pk: 2ms max
- Start Up Time (within $\pm 0.5\text{ppm}$): 2ms max

Output Control

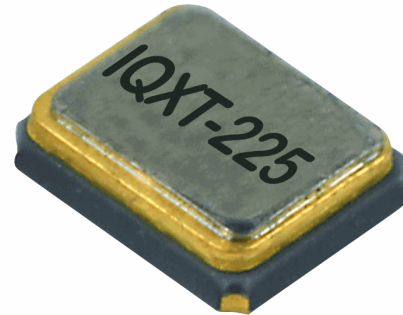
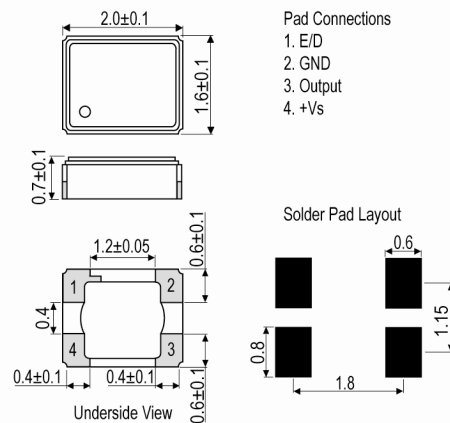
- Enable/Disable (pad 1):
Logic '1' ($80\%V_s$ min) or no connection to pad 1 enables the oscillator output.
Logic '0' ($20\%V_s$ max) to pad 1 disables the oscillator output, the output goes to a high impedance state.
Disable current in E/D mode: $3\mu\text{A}$ max

Noise Parameters

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

Environmental Parameters
Manufacturing Details

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


Outline (mm)

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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*

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