

Customer Part:

Description

- 2.0 x 1.2mm SMD crystal in a hermetically sealed ceramic package with an electro-beam sealed metal lid. Suitable for real time clock applications.
- Model IQXC-25
- Model Issue number 5

Frequency Parameters

- Frequency 32.7680kHz
- Frequency Tolerance $\pm 20.00\text{ppm}$
- Tolerance Condition $@25^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- Operating Temperature Range -40.00 to 85.00°C
- Overtone Order Fundamental
- Ageing $\pm 3\text{ppm}$ max per year $@25^{\circ}\text{C}$
- Frequency Stability Coefficient: $-0.03 \pm 0.01\text{ppm}/^{\circ}\text{C}^2$
- Drive Level: $0.1\mu\text{W}$ recommended, $\pm 0.5\mu\text{W}$ max
- Motional Capacitance (C1): 6.5fF typ

Electrical Parameters

- Load Capacitance (CL) 6.00pF
- Shunt Capacitance (C0) 1.3pF typ, 1.7pF max
- ESR $90.00\text{k}\Omega$ max

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: IEC 60068-2-27: 1000g , 1ms , 3 times in each of the 3 mutually perpendicular planes.
- Vibration: IEC 60068-2-6: 1.5mm amplitude, $10\text{Hz} \sim 55\text{Hz}$, 1 minute in 3 mutually perpendicular planes for the total of 6 hours (2 hours in each plane).

Manufacturing Details

- RoHS Terminations Au over Ni over W base
- RoHS Reflow Temp 260°C max for 5 seconds

Compliance

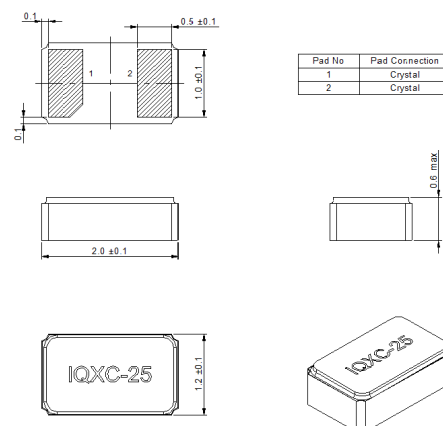
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

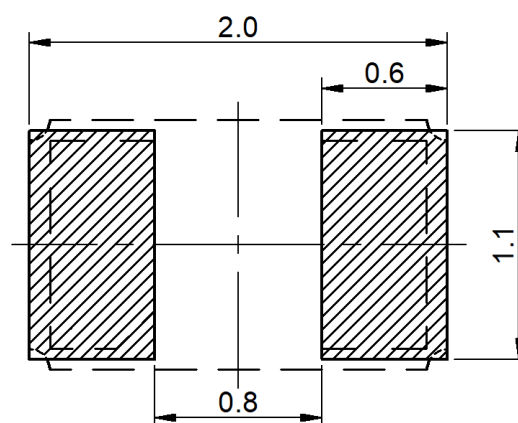
- Tape & reel in accordance with EIA-481
- Quantities below the standard reel size to be supplied on cut tape
- Standard Pack Quantity: 3,000



Outline (mm)



Recommended Solder Pad Layout



Sales Office Contact Details:

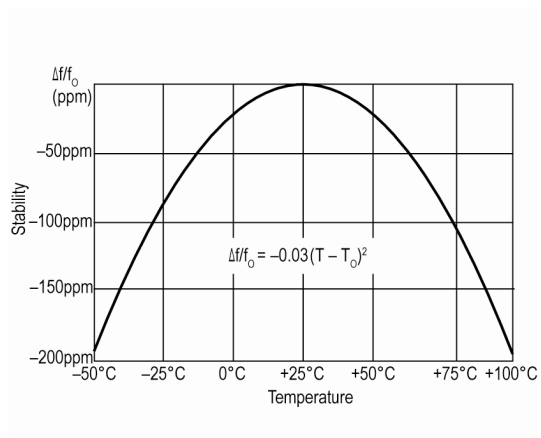
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Customer Part:

Typical Frequency Stability Characteristics



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