

## Description

- 2.0 x 1.2mm SMD crystal in a hermetically sealed ceramic package with an electron beam sealed metal lid. Suitable for real time clock applications.
- Model IQXC-25
- Model Issue number 3

## Frequency Parameters

- Frequency 32.768kHz
- Frequency Tolerance  $\pm 20.00\text{ppm}$
- Tolerance Condition @ 25°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°C
- Frequency Stability Coefficient:  $-0.03/^\circ\text{C}^2$  typ
- Motional Capacitance (C1): 7fF typ

## Electrical Parameters

- Load Capacitance (CL) 12.50pF
- Shunt Capacitance (C0) 1.3pF typ, 1.7pF max
- Drive Level 0.1 $\mu\text{W}$   $\pm 0.01\mu\text{W}$  recommended,  $\pm 90.00\text{k}\Omega$  max
- ESR 90.00k $\Omega$  max

## Environmental Parameters

- Storage Temperature Range: -40 to 85°C
- Shock: IEC 60068-2-27: 1000G, 1ms, 3 times in each of 3 mutually perpendicular planes.
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs).

## Manufacturing Details

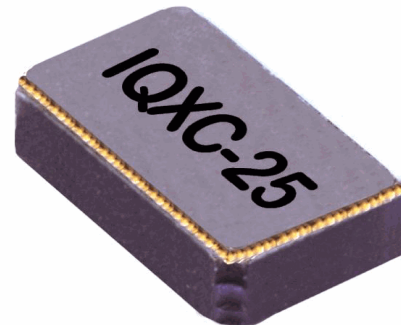
- Maximum Reflow Temperature: 260°C for 5secs max

## Compliance

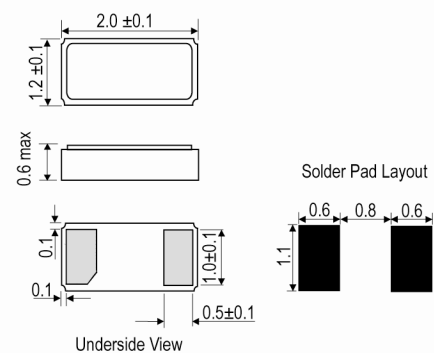
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

## Packaging Details

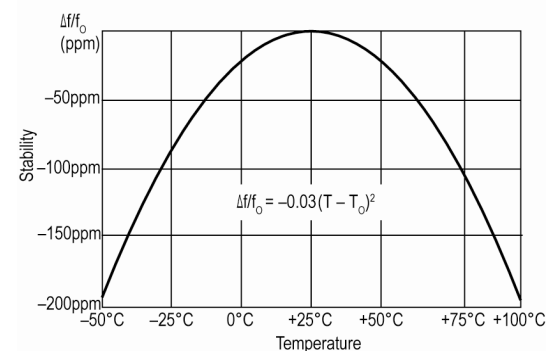
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- Alternative packing option available



## Outline (mm)



## Typical Frequency Stability Characteristics



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