

**Customer Part:**

**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 32.7680kHz
- Frequency Tolerance  $\pm 20.00\text{ppm}$
- Tolerance Condition @ 25°C  $\pm 5^\circ\text{C}$
- Overtone Order Fundamental
- Ageing  $\pm 3\text{ppm}$  max per year @ 25°C
- Frequency Stability Coefficient:  $-0.03/^\circ\text{C}^2$  typ
- Drive Level:  $0.1\mu\text{W} \pm 0.01\mu\text{W}$  recommended,  $\pm 0.5\mu\text{W}$  max
- Motional Capacitance (C1): 7fF typ

**Electrical Parameters**

- Load Capacitance (CL) 9.00pF
- Shunt Capacitance (C0) 1.3pF typ, 1.7pF max
- ESR 90.00k $\Omega$  max

**Environmental Parameters**

- Storage Temperature Range:  $-40$  to  $85^\circ\text{C}$
- 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**

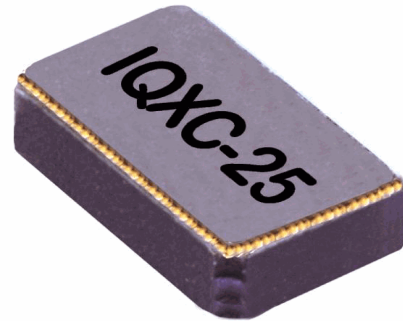
- Maximum Reflow Temperature:  $260^\circ\text{C}$  for 5secs max
- RoHS Terminations Au over Ni over W base
- RoHS Reflow Temp  $260^\circ\text{C}$  max for 5secs max

**Compliance**

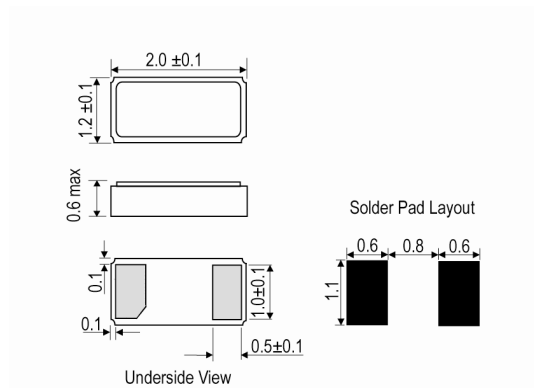
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

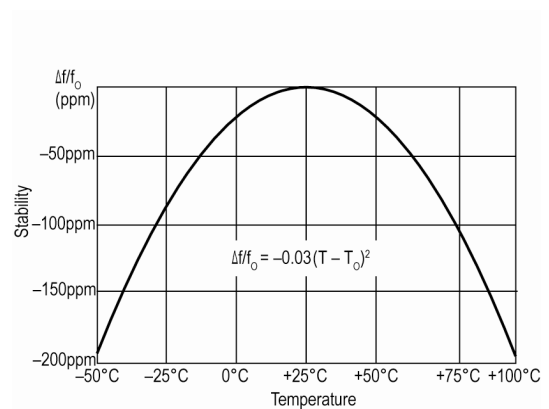
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- *Alternative packing option available*



**Outline (mm)**



**Typical Frequency Stability Characteristics**



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