

**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 ±20.00ppm
- Tolerance Condition @ 25°C ±5°C
- Operating Temperature Range -40.00 to 85.00°C
- Overtone Order Fundamental
- Ageing ±3ppm max per year @ 25°C
- Frequency Stability Coefficient: -0.03/°C<sup>2</sup> typ
- Drive Level: 0.1µW±0.01µW recommended, ±0.5µW max
- Motional Capacitance (C1): 7fF typ

**Electrical Parameters**

- Load Capacitance (CL) 4.00pF
- Shunt Capacitance (C0) 1.3pF typ, 1.7pF max
- ESR \*\*\*See Technical Notes\*\*\*

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

**Compliance**

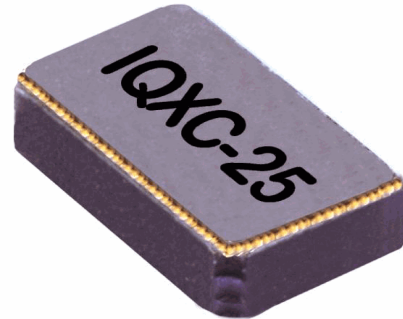
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

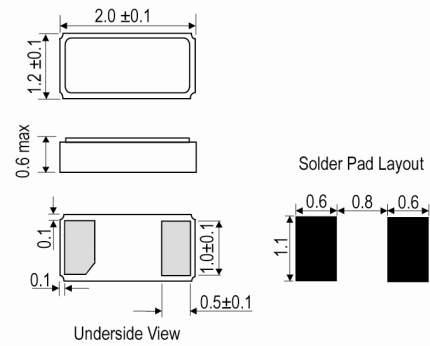
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- *Alternative packing option available*

**Technical Notes**

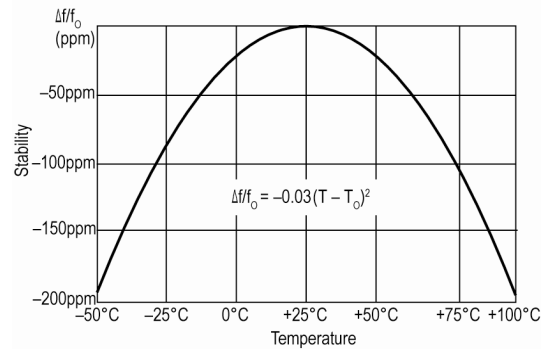
- ESR 80k Ohms max



**Outline (mm)**



**Typical Frequency Stability Characteristics**



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