

**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  $\pm 5^\circ\text{C}$
- 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
- 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) 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**

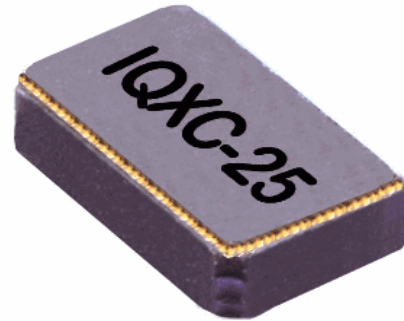
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

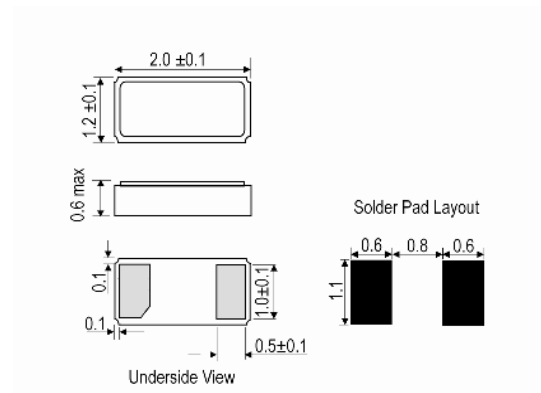
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- *Alternative packing option available*

**Technical Notes**

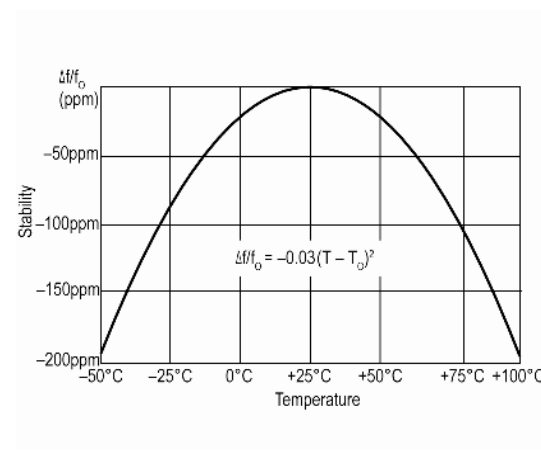
- ESR 80k Ohms max



**Outline (mm)**



**Typical Frequency Stability Characteristics**



**Sales Office Contact Details:**

UK: +44 (0)1460 270200  
Germany: 0800 1808 443

France: 0800 901 383  
USA: +1.760.318.2824

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)