

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 32.768kHz
- Frequency Tolerance $\pm 10.00\text{ppm}$
- 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) 9.00pF
- 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

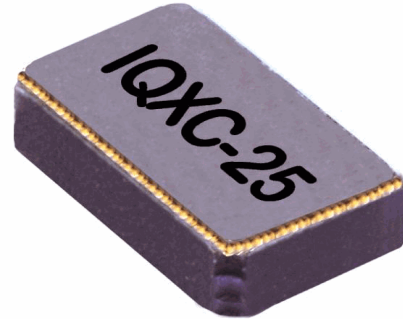
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

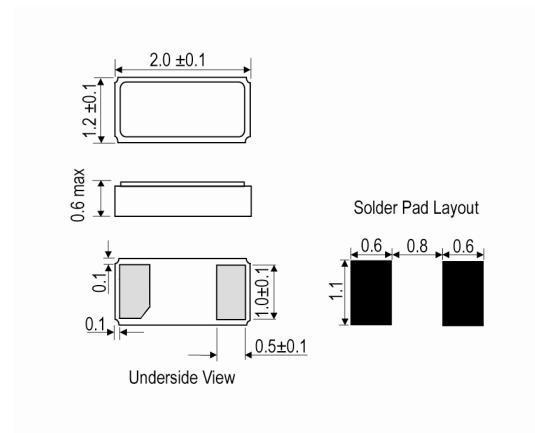
- Tape & reel in accordance with EIA-481
- Quantities below the standard reel size to be supplied on cut tape.
- Standard Quantity: 3,000 Pieces

Technical Notes

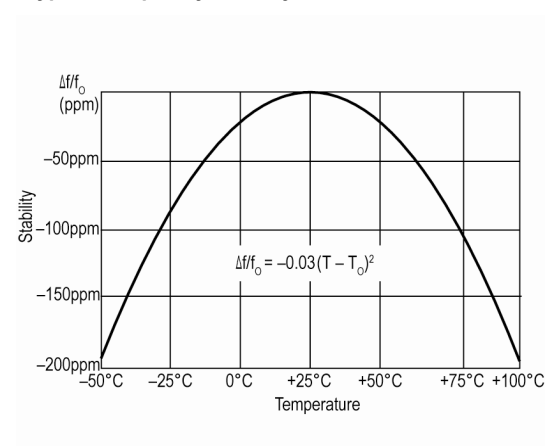
- ESR 70k Ohms max



Outline (mm)



Typical Frequency Stability Characteristics



Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760 668 8935

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com