

Description

- 1.6 x 1.0mm SMD crystal in a hermetically sealed ceramic package. Suitable for real time clock applications.
- Model IQXC-90
- Model Issue number 1

Frequency Parameters

- Frequency 32.7680kHz
- Frequency Tolerance ± 20.00 ppm
- Tolerance Condition @ 25°C $\pm 5^\circ\text{C}$
- Overtone Order Fundamental
- Ageing ± 3 ppm max in 1st year @ 25°C $\pm 3^\circ\text{C}$
- Frequency Stability Coefficient: $-0.035 \pm 10\%/^\circ\text{C}^2$ typ

Electrical Parameters

- Load Capacitance (CL) 9.00pF
- Shunt Capacitance (C0) 1.1pF typ
- Drive Level 500nW max
- ESR 90.00k Ω max

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Drop: 100g dummy, 150cm drop (3 directions x 10 times) onto concrete
- Vibration: 1.5mm amplitude, 10Hz-500Hz, 15mins in 3 mutually perpendicular planes, duration 2hrs each plane

Manufacturing Details

- Maximum Process Temperature: 260°C for 10secs max

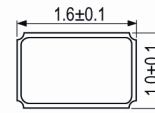
Compliance

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

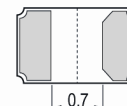
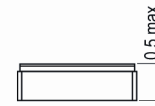
Packaging Details

- Pack Style: Cutt Cut tape
Pack Size: 100
- Alternative packing option available

Outline (mm)

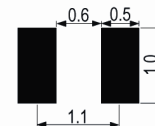


Note: please make sure that there are no tracks under IQXC-90 on the PCB

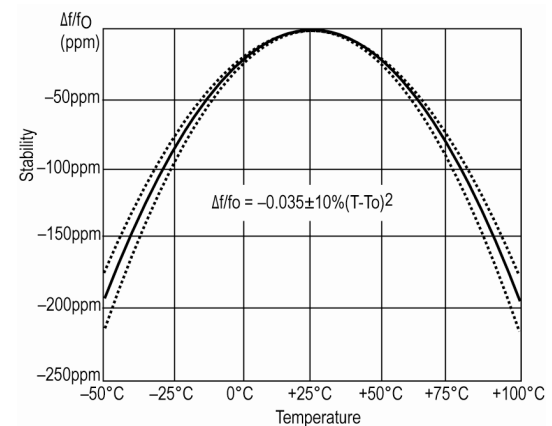


Underside View

Solder Pad Layout



Typical Frequency Stability Characteristics



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