



## Quartz Crystal Specification

*IQD Part No. + Packaging: LFX TAL082140Reel*

*Würth Part No. 830108214001*



### 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  $\pm 20.00\text{ppm}$
- Tolerance Condition @ 25°C  $\pm 5^\circ\text{C}$
- Overtone Order Fundamental
- Ageing  $\pm 3\text{ppm}$  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) 4.00pF
- Shunt Capacitance (C0) 1.1pF typ
- Drive Level 500nW max
- ESR 90.00k $\Omega$  max

### Environmental Parameters

- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$
- 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:  $260^\circ\text{C}$  for 10secs 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: 5,000
- Alternative packing option available

## USEFUL LINKS

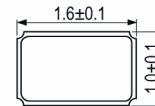
#### Toolbox:

[www.we-online.com/toolbox](http://www.we-online.com/toolbox)

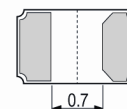
#### Product Catalog:

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### Outline (mm)

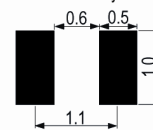


Note: please make sure that there are no tracks under IQXC-90 on the PCB

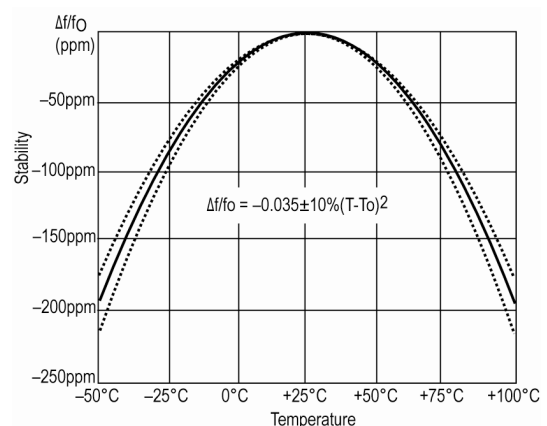


Underside View

#### Solder Pad Layout



### Typical Frequency Stability Characteristics



### CONTACT INFORMATION:

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