



## Quartz Crystal Specification

*IQD Part No. + Packaging: LFX TAL050789Reel*

*Würth Part No. 830050789*



### 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  $\pm 20.00$ ppm
- Tolerance Condition @ 25°C  $\pm 5^\circ\text{C}$
- Operating Temperature Range -40.00 to 85.00°C
- Overtone Order Fundamental
- Ageing  $\pm 3$ ppm max per year @ 25°C
- Frequency Stability Coefficient:  $-0.03/^\circ\text{C}^2$  typ
- Motional Capacitance (C1): 7fF typ

### Electrical Parameters

- Load Capacitance (CL) 12.50pF
- Shunt Capacitance (C0) 1.3pF typ, 1.7pF max
- Drive Level 0.1 $\mu\text{W}$  $\pm 0.01\mu\text{W}$  recommended,  $\pm$
- ESR 90.00k $\Omega$  max

### 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

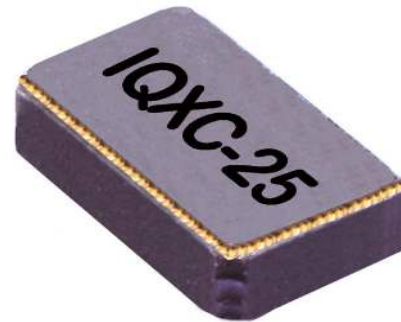
- Maximum Reflow Temperature: 260°C for 5secs max
- RoHS Terminations Au over Ni over W base
- RoHS Reflow Temp 260°C max for 5secs max

### Compliance

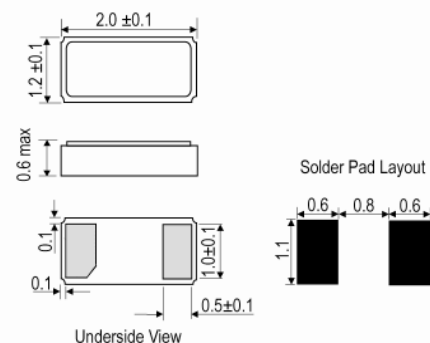
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JEDEC-STD-033): Not Applicable

### Packaging Details

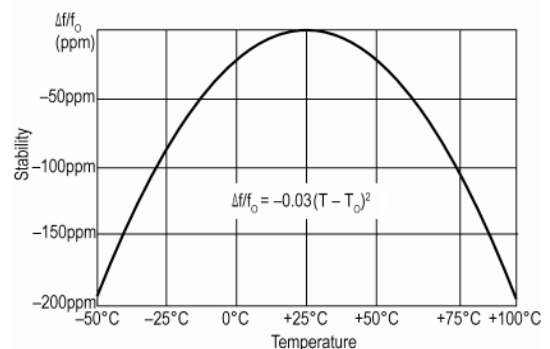
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
- Pack Size: 3,000



### Outline (mm)



### Typical Frequency Stability Characteristics



### CONTACT INFORMATION:

Würth Elektronik eiSos GmbH & Co. KG  
 Max-Eyth-Str. 1, 74638 Waldenburg, Germany  
 Tel: +49(0) 7942 945-0

Email: [eiSos@we-online.de](mailto:eiSos@we-online.de)  
 Web: [www.we-online.com](http://www.we-online.com)



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- *Alternative packing option available*

### USEFUL LINKS

Toolbox:

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

Product Catalog:

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

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Tel: +49(0) 7942 945-0

Email: [eiSos@we-online.de](mailto:eiSos@we-online.de)  
Web: [www.we-online.com](http://www.we-online.com)