



## Quartz Crystal Specification

IQD Part No. + Packaging: LFX TAL082135RL3K

Würth Part No. 830108213509



### Description

- 2 x 1.6mm SMD crystal  
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model IQXC-42
- Model Issue number 1

### Frequency Parameters

- Frequency 48.0MHz
- Frequency Tolerance  $\pm 10.00\text{ppm}$
- Frequency Stability  $\pm 15.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Overtone Order Fundamental
- Ageing  $\pm 3\text{ppm}$  max per year @  $25^\circ\text{C}$

### Electrical Parameters

- Load Capacitance (CL) 8.00pF
- Shunt Capacitance (C0) 3pF max
- Drive Level 100 $\mu\text{W}$  max
- ESR 60.00 $\Omega$  max

### Environmental Parameters

- 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)
- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$

### Manufacturing Details

- RoHS Terminations NiAu
- RoHS Reflow Temp 260degC 10s

### Compliance

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

### Packaging Details

- Pack Style: RL3K Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- Alternative packing option available

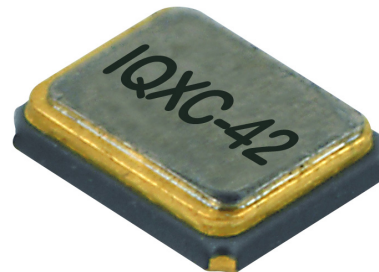
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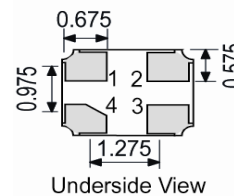
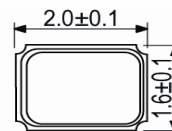
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### Outline (mm)

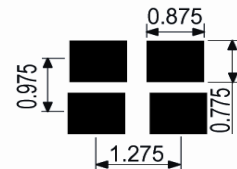


Underside View

### Pad Connections

1. Crystal
2. GND
3. Crystal
4. GND

### Solder Pad Layout



### CONTACT INFORMATION:

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