



## Quartz Crystal Specification

IQD Part No. + Packaging: LFX TAL082071RL3K

Würth Part No. 830108207109



### Description

- Standard 3.2 x 2.5mm SMD crystal in a ceramic package with a seam sealed metal lid, hermetically sealed.
- Model CFPX-180
- Model Issue number 9

### Frequency Parameters

- Frequency 16.0MHz
- Frequency Tolerance  $\pm 10.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability  $\pm 20.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Overtone Order Fundamental
- Ageing  $\pm 5\text{ppm max per year @ 25°C}$

### Electrical Parameters

- Load Capacitance (CL) 8.00pF
- Shunt Capacitance (C0) 7pF max
- Drive Level 100 $\mu$ W max
- ESR 70.00 $\Omega$  max

### Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

### 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

## USEFUL LINKS

#### Toolbox:

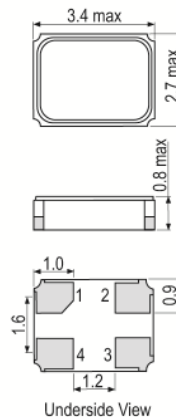
[www.we-online.com/toolbox](http://www.we-online.com/toolbox)

#### Product Catalog:

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



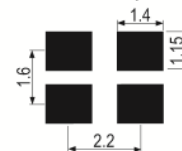
### Outline (mm)



#### Pad Connections

1. Crystal
2. GND & Lid
3. Crystal
4. GND & Lid

#### Solder Pad Layout



### 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)