

### Description

- Standard 7 x 5mm SMD crystal
- 4 pad (metal lid)
- Model 12SMX
- Model Issue number 17

### Frequency Parameters

- Frequency 24.5760MHz
- Frequency Tolerance  $\pm 30.00\text{ppm}$
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range  $-20.00$  to  $70.00^{\circ}\text{C}$
- Overtone Order Fundamental
- Ageing  $\pm 5\text{ppm}$  max per year

### Electrical Parameters

- Load Capacitance 16.00pF
- Shunt Capacitance 7pF max
- Drive Level 100 $\mu\text{W}$  max
- ESR 40.00 $\Omega$  max

### Environmental Parameters

- Storage Temperature Range:  $-40$  to  $125^{\circ}\text{C}$
- Drop Test: In accordance with JIS-C0044; The specimen is measured for its frequency and resistance before the test. It is then dropped from a height of 75 cm or more as a free fall object onto a hard wooden plate of 30mm or more in thickness.
- Vibration Test: MIL-STD-202 Method 204. 5g for 20 minutes, 12 cycles in each of the 3 orientations, 10 - 2000 Hz. As per Table 11 of AEC-Q200.

### Manufacturing Details

- RoHS Terminations Ni, Au
- RoHS Reflow Temp  $260^{\circ}\text{C}$  max over 10 seconds

### Compliance

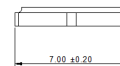
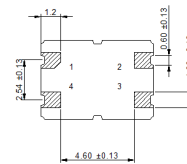
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

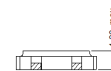
- Tape & reel in accordance with EIA-481  
Quantities below the standard reel size to be supplied on cut tape  
Standard Quantity: 1,000 Pieces



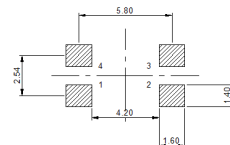
### Outline (mm)



| Pad | Pad Connection |
|-----|----------------|
| 1   | Crystal        |
| 2   | GND            |
| 3   | Crystal        |
| 4   | GND            |



Recommended Solder Pad Layout



### CONTACT INFORMATION:

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## Quartz Crystal Specification

*IQD Part No.: LFX TAL026396*

*Würth Part No. 830026396*



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### 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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