

### Description

- Standard 7 x 5mm SMD crystal
- 4 pad (metal lid)
- Model 12SMX-B
- Model Issue number 16

### Frequency Parameters

- Frequency 20.0MHz
- Frequency Tolerance  $\pm 30.00$ ppm
- Frequency Stability  $\pm 50.00$ ppm
- Operating Temperature Range -20.00 to 70.00°C
- Overtone Order Fundamental
- Ageing  $\pm 5$ ppm max per year

### Electrical Parameters

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

### Environmental Parameters

- Storage Temperature Range: -40 to 125°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

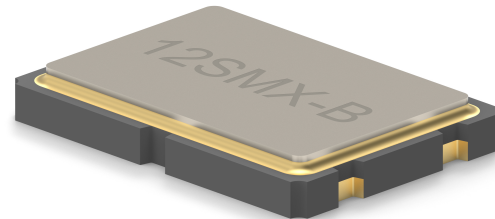
- RoHS Terminations Ni, Au
- RoHS Reflow Temp 260°C max over 10 seconds

### Compliance

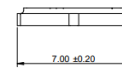
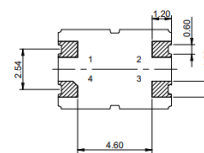
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### 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



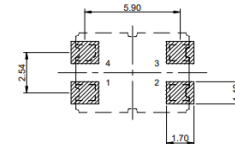
### Outline (mm)



Pad Connection	
Pad No	Pad Connection
1	Crystal
2	GND
3	Crystal
4	GND



Recommended 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)



## Quartz Crystal Specification

*IQD Part No.: LFX TAL026394*

*Würth Part No. 830026394*



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[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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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)