

# QUARTZ CRYSTAL MHZ

Part Number: 8301100333 | 12SMX-B | 12SMX

AKA Number: LFX TAL100333

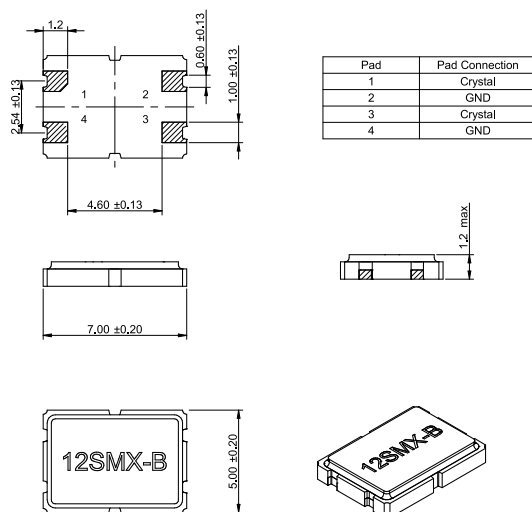


## General Information

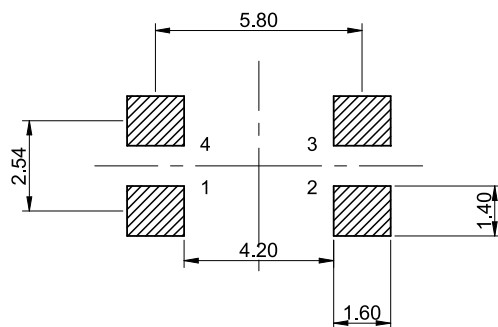
Standard 7.0 x 5.0 mm SMD crystal

B: 4 pad (metal lid) - A ceramic package with a seam sealed metal lid, hermetically sealed.

## Dimensions [mm]



## Recommended Land Pattern [mm]



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## Frequency Parameters

|                       |                         |
|-----------------------|-------------------------|
| Frequency             | 12.0 MHz                |
| Frequency Tolerance   | ± 30 ppm @ 25 °C        |
| Frequency Stability   | ± 50 ppm                |
| Operating Temperature | -40 °C to 125 °C        |
| Overtone Order        | Fundamental             |
| Ageing                | ± 5 ppm max. first year |

## Material Parameters

|                                  |                |
|----------------------------------|----------------|
| Termination Finish               | Au<br>Ni       |
| Moisture Sensitivity Level (MSL) | Not Applicable |

## Manufacturing Details

Reflow: 260 °C max. over 10 seconds max.

## Company Address

IQD Frequency Products Ltd.  
Station Road  
Crewkerne  
Somerset  
TA18 8AR, United Kingdom

## Electrical Parameters

|                         |             |
|-------------------------|-------------|
| Load Capacitance $C_L$  | 8 pF        |
| Shunt Capacitance $C_0$ | 7 pF max.   |
| Drive Level             | 100 µW max. |
| ESR                     | 60 Ω max.   |

## Environmental Parameters

Storage Temperature Range: -40 °C 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 30 mm or more in thickness.
- Vibration Test: MIL-STD-202 Method 204. 5g for 20 minutes, 12 cycles in each of the 3 orientations, 10.0 ~ 2000.0 Hz. As per Table 11 of AEC-Q200.

## Technical Standards

|              |                         |
|--------------|-------------------------|
| RoHS Status  | 2015/863/EU - Compliant |
| REACH Status | Compliant               |

## Packaging Details

|                                                                     |                      |
|---------------------------------------------------------------------|----------------------|
| Packaging SPQ                                                       | Tape & Reel 1000 pcs |
| Tape & reel in accordance with EIA-481                              |                      |
| Quantities below the standard reel size to be supplied on cut tape. |                      |