# QUARTZ CRYSTAL MHZ

**Part Number: 830026384** | -B | 12SMX

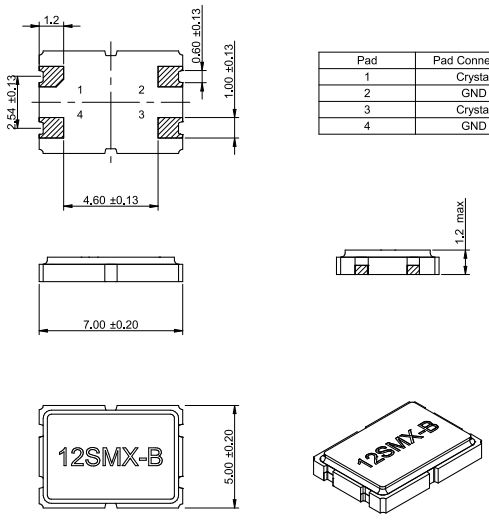
AKA Number: LFXTAL026384

## General Information

Standard 7 x 5mm SMD crystal.

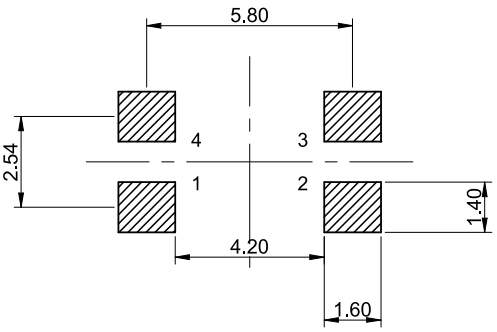
B: 4 pad (metal lid) - A ceramic package with a seam sealed metal lid, hermetically sealed.

## Dimensions [mm]




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

## Recommended Land Pattern [mm]




## Frequency Parameters

| | |
|---|---|
| Frequency | 12.0 MHz |
| Frequency Tolerance | ± 30 ppm |
| Frequency Stability | ± 50 ppm |
| Operating Temperature | -20 °C to 70 °C |
| Overtone Order | Fundamental |
| Ageing | ± 5 ppm max. first year |

## Material Parameters

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

## Manufacturing Details

Reflow: 260 °C max over 10 seconds.

## Electrical Parameters

| | |
|---|---|
| Load Capacitance $C_L$ | 16 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. 5 g for 20 minutes, 12 cycles in each of the 3 orientations, 10 - 2000 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.

## Company Address


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