

Customer Part:

Description

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

Frequency Parameters

- Frequency 16.0MHz
- Frequency Tolerance $\pm 30.00\text{ppm}$
- Frequency Stability $\pm 30.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Overtone Order Fundamental
- Ageing $\pm 5\text{ppm}$ max per year

Electrical Parameters

- Load Capacitance 12.00pF
- Shunt Capacitance 7pF max
- Drive Level 100 μW max
- ESR 40.00 Ω 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

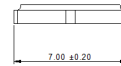
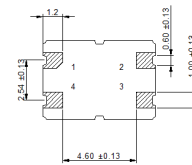
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

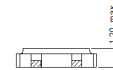
- Tape & reel in accordance with EIA-481
- Quantities below the standard reel size to be supplied on cut tape
- Standard Pack Quantity: 1,000



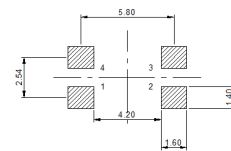
Outline (mm)



Pad	Pad Connection
1	Crystal
2	GND
3	Crystal
4	GND



Recommended Solder Pad Layout



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