

3SMX Crystals

ISSUE 3; 29 SEPTEMBER 2004

Delivery Options

- Please contact our sales office for current leadtimes

Holder Style

- 3SMX surface mount crystals are housed in a hermetically glass sealed ceramic package

General Specifications

- Load Capacitance (C_L): 10pF to 75pF or Series
- Drive Level: 0.1mW max.
- Static Capacitance (C_0): 7pF max.

Packaging

- 3SMX surface mount crystals are available packaged individually or on tape and reel

Standard Frequency Tolerances and Stabilities

- ± 50 ppm, ± 100 ppm

Operating Temperature Range

- -10 to 60°C

Storage Temperature Range

- -30 to 85°C

Solder Condition

- For typical soldering conditions, please see the relevant page in Application Notes

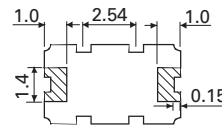
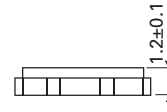
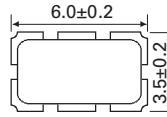
Marking

- Frequency only

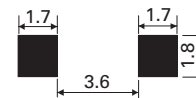
Minimum Order Information Required

- Frequency + Holder + Frequency Tolerance @ 25°C + Frequency Stability + Operating Temperature Range + Circuit Condition + Overtone Order

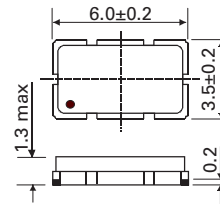
Outline in mm - 3SMX (A)



Solder pad layout



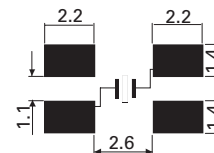
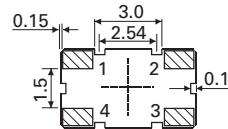
Outline in mm - 3SMX (B)



Pad Connections

1. Crystal
2. N/C / GND
3. Crystal
4. N/C / GND

Solder pad layout



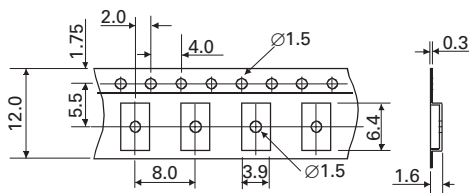
Electrical Specification – maximum limiting values

Frequency Range	Frequency Tolerance @25°C±2°C	Operating Temperature	Frequency Stability Available Over Operating Temperature		ESR max.	Vibration Mode
			Minimum	Maximum		
10.0 to <12.0MHz	±30ppm, ±50ppm	-10 to 60°C	±50ppm	±100ppm	80Ω	Fundamental AT cut
12.0 to <16.0MHz	±30ppm, ±50ppm	-10 to 60°C	±50ppm	±100ppm	60Ω	Fundamental AT cut
16.0 to 40.0MHz	±30ppm, ±50ppm	-10 to 60°C	±50ppm	±100ppm	40Ω	Fundamental AT cut
>40.0 to 67.0MHz	±30ppm, ±50ppm	-10 to 60°C	±50ppm	±100ppm	70Ω	3rd Overtone At cut

Note. For any other frequency / specification combinations, please contact our sales office.

SURFACE MOUNT
QUARTZ CRYSTALS

Outline in mm - Tape



Outline in mm - Reel

