4SMX CRYSTALS

ISSUE 2; 9 SEPTEMBER 1999

Delivery Options

- Please contact our sales office for current leadtimes

Holder Style

- 4SMX surface mount crystals are encapsulated 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

- 4SMX surface mount crystals are available packaged individually or on tape and reel

Standard Frequencies

- 12.0MHz, 14.318180MHz, 14.74560MHz, 16.0MHz, 18.4320MHz, 19.20MHz, 19.66080MHz, 20.0MHz, 24.0MHz, 25.0MHz, 27.0MHz, 28.2240MHz, 30.0MHz, 32.0MHz, 33.3330MHz, 40.0MHz, 48.0MHz, 56.4480MHz

Standard Frequency Tolerances and Stabilities

- ±50ppm, ±100ppm

Operating Temperature Range

- –10 to 60°C

Storage Temperature Range

- –30 to 85°C

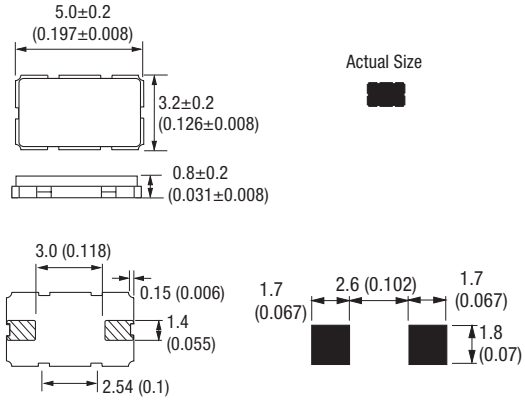
Marking

- Frequency only

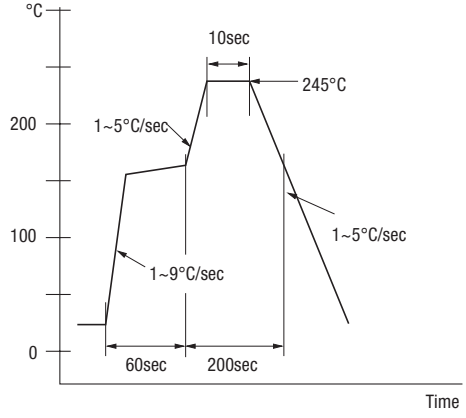
Minimum Order Information Required

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

Outline in mm (inches) - (scale 3:1)



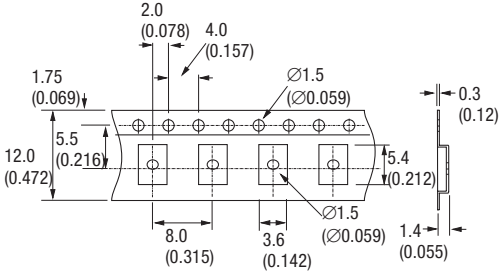
Typical Solder Condition - Infrared Reflow



Electrical Specification - maximum limiting values

Frequency Range	Frequency Tolerance @ 25°C ±2°C	Operating Temperature Range	Frequency Stability Available Over Operating Temperature	ESR Max	Vibration Mode
12.0 to <14.0MHz	±50ppm	–10 to 60°C	±100ppm	140Ω	Fundamental AT cut
14.0 to <16.0MHz	±50ppm	–10 to 60°C	±100ppm	90Ω	Fundamental AT cut
16.0 to 67.0MHz	±50ppm	–10 to 60°C	±100ppm	60Ω	Fundamental BT cut

Outline in mm (inches) - Tape



Outline in mm (inches) - Reel (scale 1:5)