

# 6SMX CRYSTALS

ISSUE 8; 17 DECEMBER 2008 – RoHS 2002/95/EC

## Holder Style

- Hermetically sealed ceramic package with resin sealed ceramic lid
- A pad to pad replacement for the 5SMX and 32SMX crystals

## General Specifications

- Load Capacitance (CL): 16pF to 32pF or Series
- Drive Level: 0.1mW max
- Static Capacitance (C0): 7pF max

## Packaging

- Loose in bulk pack or tape and reel

## Standard Frequency Tolerance and Stability

- ±50ppm

## Operating Temperature Ranges

- 10 to 60°C

## Storage Temperature Range

- 30 to 85°C

## Environmental

- Shock: MIL-STD-202F, Method 213B (1000G, 0.5ms 1/2 sine wave)
- Vibration: MIL-STD-202F, Method 204D, Test Condition D 20G (freq range 10-2000Hz, 4 hrs in X, Y & Z axes, total 12 hrs)

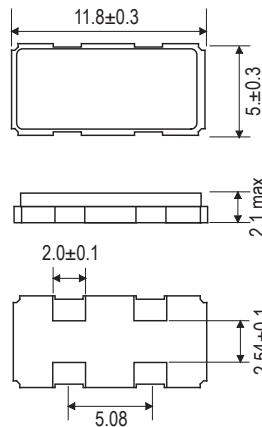
## Marking includes

- Frequency

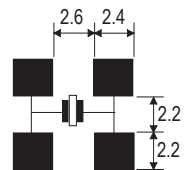
## Minimum Order Information Required

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

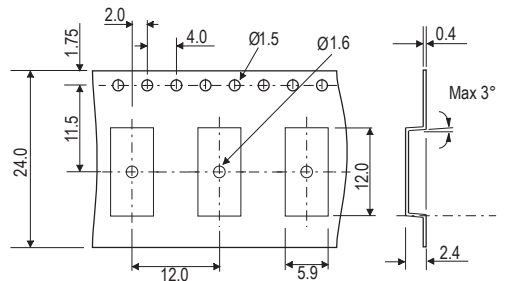
## Outline (mm)



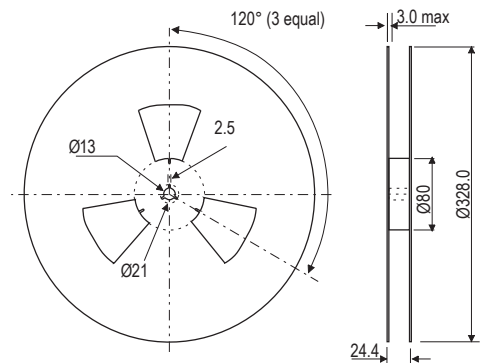
## Solder pad layout



## Tape (mm)



## Reel (mm)



**Electrical Specifications – maximum limiting values**

Frequency Range	Frequency Tolerance @25°C ±2°C	Operating Temperature Range	Frequency Stability	ESR Max	Vibration Mode
3.2 to <3.5MHz	±50ppm	-10 to 60°C	±50ppm	200Ω	Fundamental
3.5 to <4.0MHz				140Ω	
4.0 to <4.4MHz				120Ω	
4.4 to <4.9MHz				100Ω	
4.9 to <6.0MHz				80Ω	
6.0 to <7.0MHz				60Ω	
7.0 to <8.0MHz				50Ω	
8.0 to <11.0MHz				45Ω	
11.0 to <12.0MHz				40Ω	
12.0 to <15.0MHz				35Ω	
15.0 to <27.0MHz				30Ω	
27.0 to <70.0MHz				100Ω	
Note: For other frequency/specification combinations, please contact our sales office					