

EN: This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.



12SMX Crystals

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Delivery Options

Please contact our sales office for current leadtimes

Holder Style

■ 12SMX surface mount crystals are encapsulated in a ceramic package with a resin sealed lid

General Specifications

- Load Capacitance (C_L): 10pF to 75pF or Series
- Drive Level: 0.1mW max
- Static Capacitance (C₀): 7pF max

Packaging

- 12SMX surface mount crystals are available packaged individually or on tape and reel
- 12SMX-B is the preferred package

Standard Frequency Tolerances and Stability

■ ±30ppm, ±50ppm, ±100ppm

Operating Temperature Ranges

0 to 50°C -10 to 60°C

Storage Temperature Range

■ -40 to 85°C

Solder Condition

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

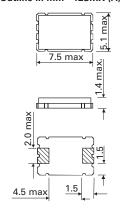
Marking

■ Frequency only

Minimum Order Information Required

■ Frequency + Holder and Pad Configuration + Frequency Tolerance @ 25°C + Frequency Stability + Operating Temperature Range + Circuit Condition + Overtone Order

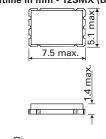
Outline in mm - 12SMX (A)



Solder pad layout



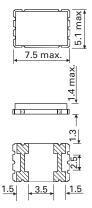
Outline in mm - 12SMX (B)



Solder pad layout







Solder pad layout



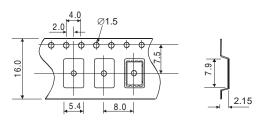


Electrical Specification - maximum limiting values

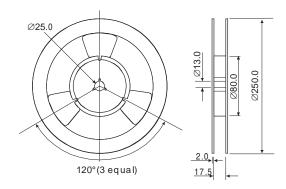
Frequency Range	Frequency Tolerance @ 25°C ±2°C	Operating Temperature Range	Frequency Stability Available Over Operating Temperature		ESR max.	Vibration Mode
			Minimum	Maximum	7	
6.0 to < 8.0MHz	±20ppm to ±100ppm	0 to 50°C	±20ppm	±100ppm	150Ω	Fundamental
8.0 to < 10.0MHz	±20ppm to ±100ppm	0 to 50°C	±30ppm	±100ppm	80Ω	Fundamental
		−10 to 60°C	±30ppm	±100ppm		
10.0 to < 16.0MHz	±20ppm to ±100ppm	0 to 50°C	±30ppm	±100ppm	60Ω	Fundamental
		-10 to 60°C	±30ppm	±100ppm		
16.0 to < 50.0MHz	±20ppm to ±100ppm	0 to 50°C	±30ppm	±100ppm	40Ω	Fundamental
		−10 to 60°C	±30ppm	±100ppm		
40.0 to < 84.0MHz	±20ppm to ±100ppm	0 to 50°C	±30ppm	±100ppm	60Ω	3rd Overtone
		-10 to 60°C	±30ppm	±100ppm	7	

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

Outline in mm - Tape



Outline in mm - Reel



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