86SMX CRYSTALS

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Delivery Options

Please contact our sales office for current leadtimes

Holder Style

■ 86SMX surface mount crystals are plastic encapsulated

General Specifications

- Load Capacitance (C_L): 10pF to 50pF or Series
- Drive Level: 100µW max

Packaging

 86SMX surface mount crystals are available bulk packed or on tape and reel

Standard Frequency Tolerances and Stabilities

 ±10ppm, ±20ppm, ±30ppm, ±50ppm, ±100ppm, ±150ppm,

Operating Temperature Ranges

Storage Temperature Range

■ -55 to 125°C

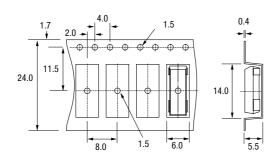
Marking

■ Frequency only

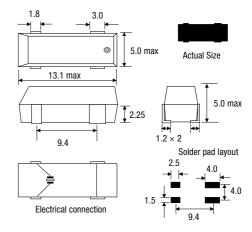
Minimum Order Information Required

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

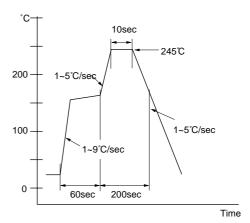
Outline in mm - Tape



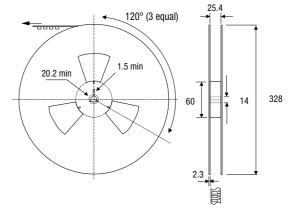
Outline in mm - 86SMX (scale 2:1)



Typical Solder Condition - Infrared Reflow



Outline in mm - Reel (scale 1:8)



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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		
3.57 to < 3.70MHz	±10ppm to ±100ppm	0 to 50°C	±10ppm	±100ppm	200Ω	Fundamenta
		-10 to 60°C	±20ppm			
		-20 to 70°C	±30ppm	1		
		-40 to 90°C	±50ppm	±150ppm		
3.70 to < 4.0MHz	±10ppm to ±100ppm	0 to 50°C	±10ppm	±100ppm	180Ω	Fundamenta
		-10 to 60°C	±20ppm			
		-20 to 70°C	±30ppm	1		
		-40 to 90°C	±50ppm	±150ppm		
4.0 to < 5.0MHz	±10ppm to ±100ppm	0 to 50°C	±10ppm	±100ppm	150Ω	Fundamenta
		-10 to 60°C	±20ppm			
		-20 to 70°C	±30ppm	1		
		-40 to 90°C	±50ppm	±150ppm		
5.0 to < 10.0MHz	±10ppm to ±100ppm	0 to 50°C	±10ppm	±100ppm	120Ω	Fundamenta
		-10 to 60°C	±20ppm			
		-20 to 70°C	±30ppm			
		-40 to 90°C	±50ppm	±150ppm		
10.0 to < 16.0MHz	±10ppm to ±100ppm	0 to 50°C	±10ppm	±100ppm	50Ω	Fundamenta
		-10 to 60°C	±20ppm			
		-20 to 70°C	±30ppm	1		
		-40 to 90°C	±50ppm	±150ppm		
16.0 to < 26.0MHz	±10ppm to ±100ppm	0 to 50°C	±10ppm	±100ppm	40Ω	Fundamenta
		-10 to 60°C	±20ppm			
		–20 to 70°C	±30ppm			
		-40 to 90°C	±50ppm	±150ppm		
26.0 to 33.0MHz	±10ppm to ±100ppm	0 to 50°C	±10ppm	±100ppm	25Ω	Fundamenta
		-10 to 60°C	±20ppm			
		–20 to 70°C	±30ppm			
		-40 to 90°C	±50ppm	±150ppm		
30.0 to < 36.0MHz	±10ppm to ±100ppm	0 to 50°C	±10ppm	±100ppm	100Ω	3rd Overton
		-10 to 60°C	±20ppm			
		–20 to 70°C	±30ppm			
		-40 to 90°C	±50ppm	±150ppm		
36.0 to 90.0MHz	±10ppm to ±100ppm	0 to 50°C	±10ppm	±100ppm	80Ω	3rd Overtor
		-10 to 60°C	±20ppm			
		-20 to 70°C	±30ppm			
		-40 to 90°C	±50ppm	±150ppm		