

CSX3 Model

3.2X5 mm Ultra Miniature SMD Crystal

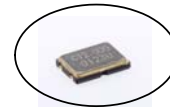
Frequency Range: 12MHz to 45MHz
Calibration Tolerance: ±10ppm to ±50ppm
Frequency Stability: ±10ppm to ±100ppm
Temperature Range: -10°C to 70°C
Storage: -30°C to 85°C
Shunt Capacitance: 5.0pF Max
Drive Level: 20uW Typical, 300uW Max
Aging: ±3ppm Max 1st/yr
ESR: see table 1



Packaging: 1K Tape and Reel

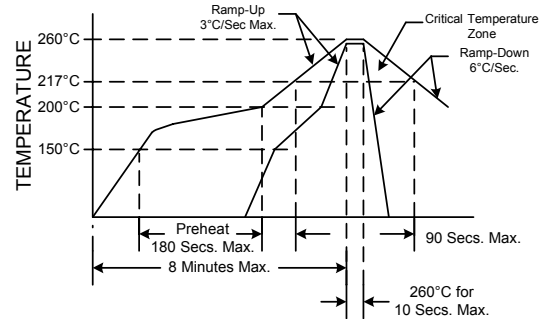
Aging: <3ppm 1st/yr Max

Quartz Crystal

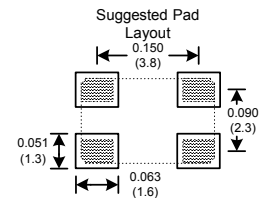
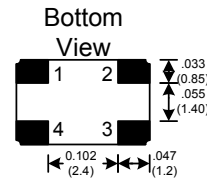
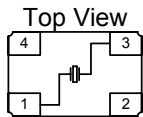
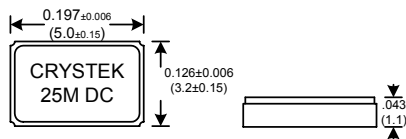


Designed to meet the most demanding space requirements while providing excellent stability.

RECOMMENDED REFLOW SOLDERING PROFILE



NOTE: Reflow Profile with 240°C peak also acceptable.



Dimensions inches (mm)
 All dimensions are Max unless otherwise specified.

Build Your Own P/N

CSX3-XXX-XX-Freq

Frequency Tolerance at 25°C

- A ±10 ppm
- B ±25 ppm
- C ±50 ppm

Frequency Stability over Temp Range

- A ±10 ppm (-10 to 70°C)
- B ±25 ppm (-10 to 70°C)
- C ±50 ppm (-10 to 70°C)
- D ±100 ppm (-10 to 70°C)
- E ±50 ppm (-40 to 85°C)
- F ±100 ppm (-40 to 85°C)
- G ±30 ppm (-40 to 85°C)

Mode

"Blank" or "1" Fundamental 12-39 MHz

Load Capacitance

S= Series

- 10= 10pF
- 14= 14pF
- 16= 16pF
- 18= 18pF
- 20= 20pF
- 22= 22pF
- 25= 25pF
- 32= 32pF

Example:

CSX3-AB1-18-19.680 = ±10ppm at 25°C, ±25ppm -10 to 70°C, Fundamental, 18pF Load Cap, 19.680MHz

PIN	Signal
1	Crystal
2	GND
3	Crystal
4	GND

Resistance at series resonance	
Freq. (MHz)	Max ESR
12.0 - 20.0 (F)	50
20.1 - 39.0 (F)	40

Table 1

Specifications subject to change without notice.

TD-021011 Rev. G

