

CSX3 Model

3.2X5 mm Ultra Miniature SMD Crystal

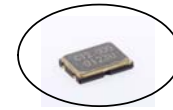
Frequency Range: 12MHz to 45MHz
Calibration Tolerance: ±10ppm to ±50ppm
Frequency Stability: ±10ppm to ±100ppm
Temperature Range: -10°C to 70°C
Storage: -30°C to 85°C
Shunt Capacitance: 5.0pF Max
Drive Level: 20uW Typical, 300uW Max
Aging: ±3ppm Max 1st/yr
ESR: see table 1

Packaging: 1K Tape and Reel

Aging: <3ppm 1st/yr Max

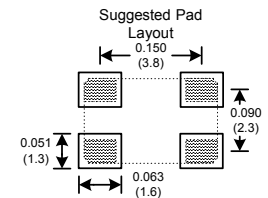
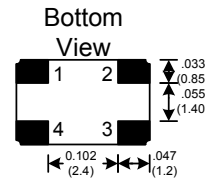
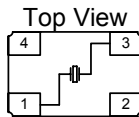
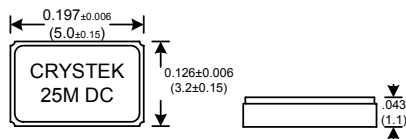
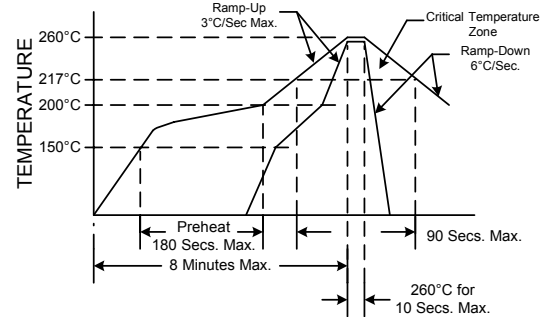


Quartz Crystal



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

RECOMMENDED REFLOW SOLDERING PROFILE



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

