

CSX3 Model

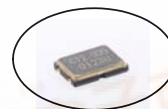
3.2X5 mm Ultra Miniature SMD Crystal

Frequency Range: 12MHz to 45MHz
Calibration Tolerance: ± 10 ppm to ± 50 ppm
Frequency Stability: ± 10 ppm to ± 100 ppm
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: ± 3 ppm Max 1st/yr
ESR: see table 1

Packaging: 1K Tape and Reel

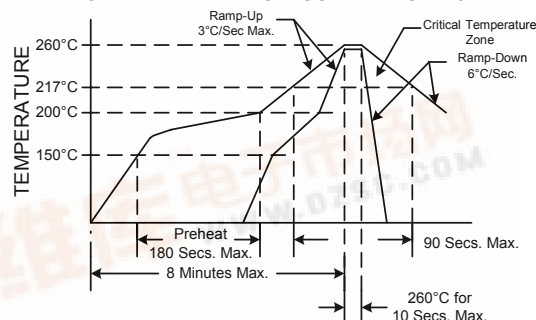
Aging: <3ppm 1st/yr Max

Quartz Crystal

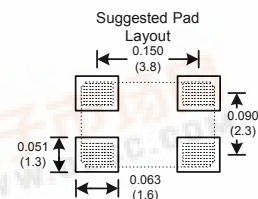
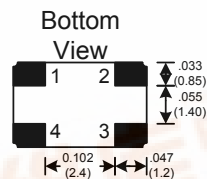
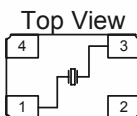
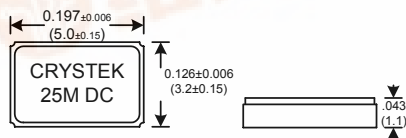


Designed to meet the most demanding space requirements while providing excellent stability.

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

Example:

CSX3-AB1-18-19.680 = ± 10 ppm at 25°C , ± 25 ppm -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