

CSX3 Model

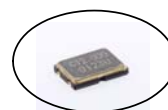
3.2X5 mm Ultra Miniature SMD Crystal

Frequency Range: 12MHz to 45MHz
Calibration Tolerance: $\pm 10\text{ppm}$ to $\pm 50\text{ppm}$
Frequency Stability: $\pm 10\text{ppm}$ to $\pm 100\text{ppm}$
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: $\pm 3\text{ppm}$ Max 1st/yr
ESR: see table 1

Packaging: 1K Tape and Reel

Aging: $< 3\text{ppm}$ 1st/yr Max

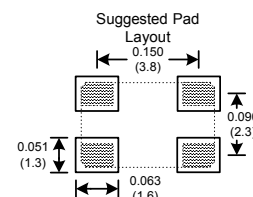
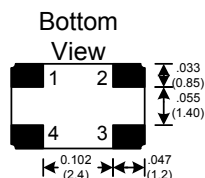
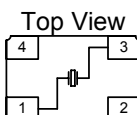
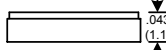
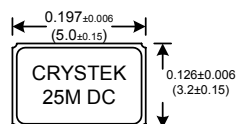
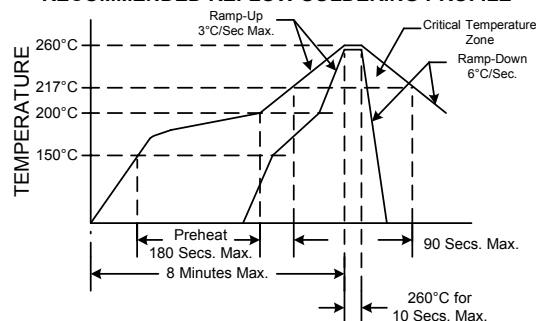
Quartz Crystal



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

Lead Free
RoHS
Compliant

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=	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 = $\pm 10\text{ppm}$ at 25°C, $\pm 25\text{ppm}$ -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