

CSX2 Model

3.5X6 mm Low Profile SMD Crystal

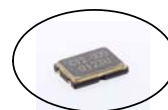
Frequency Range: 12MHz to 45MHz (fund)
Calibration Tolerance: $\pm 10\text{ppm}$ to $\pm 50\text{ppm}$
Frequency Stability: $\pm 10\text{ppm}$ to $\pm 100\text{ppm}$
Temperature Range: -20°C to 70°C
Storage: -40°C to 85°C
Shunt Capacitance: 5.0pF Max
Drive Level: 50uW Typical, 300uW Max
Aging: $\pm 3\text{ppm}$ Max 1st/yr
ESR: see table 1

Packaging: 1K Tape and Reel

**** Custom Designs Available**

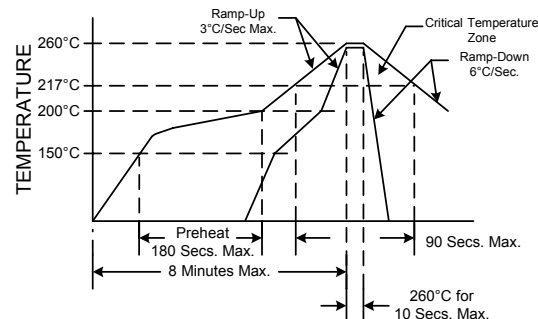
Aging: $< 3\text{ppm}$ 1st/yr Max

Quartz Crystal

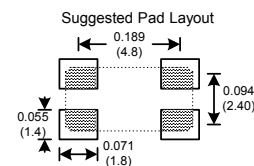
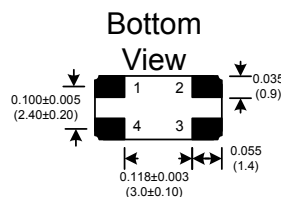
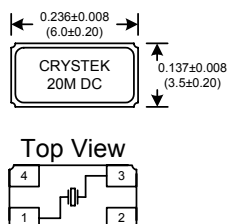


Designed to meet the precision and space requirements needed for wireless applications.

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

CSX2-XX-XX-Freq

Frequency Tolerance at 25°C

A $\pm 10\text{ ppm}$
B $\pm 25\text{ ppm}$
C $\pm 50\text{ ppm}$

Frequency Stability over Temp Range

A $\pm 10\text{ ppm}$ (-20 to 70°C)
B $\pm 25\text{ ppm}$ (-20 to 70°C)
C $\pm 50\text{ ppm}$ (-20 to 70°C)
D $\pm 100\text{ ppm}$ (-20 to 70°C)

Load Capacitance

S= Series
12= 12 pF
14= 14 pF
16= 16 pF
18= 18 pF
20= 20 pF
22= 22 pF
25= 25 pF
32= 32 pF

Example:

CSX2-AB-18-44.736 = $\pm 10\text{ppm}$ at 25°C , $\pm 25\text{ppm}$ -20 to 70°C , 18pF Load Cap, Fund, 44.736MHz

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 - 45.0 (F)	40

Table 1

Specifications subject to change without notice.

TD-021010 Rev.G



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