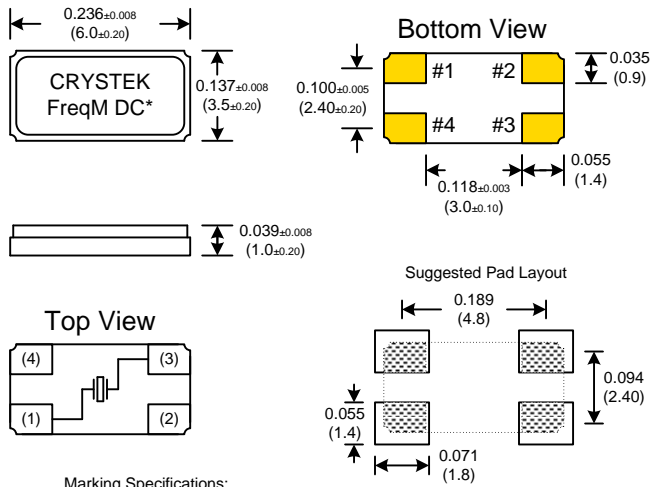


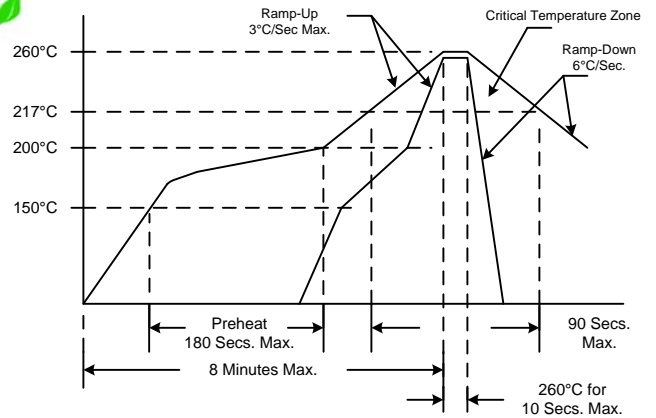
Quartz Crystal

CSX2 Model

3.5x6.0 mm Low Profile SMD Crystal



RECOMMENDED REFLOW SOLDERING PROFILE



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

PIN	Signal
1	Crystal
2	GND
3	Crystal
4	GND

Packaging Specifications:

1K ea. Tape and Real

Frequency Range: 8.000 MHz to 50.000 MHz (Fund)
40.000 MHz to 100.000 MHz (3rdOT)

Calibration Tolerance: ±10ppm to ±50ppm
Frequency Stability: ±15ppm to ±100ppm

Operating Temp. Ranges: -20°C to 70°C
Storage Temp. Range: -40°C to 85°C

Resistance: See Table 1

Shunt Cap: 5pF Max

Holder Type: 3.5x6.0mm SMD

Aging: ±3ppm/1st yr Max

Drive level: 50uW Typical, 300uW Max

Motional Capacitance: Not Specified

Spurious Response: Not Specified

C0/C1 Ratio: Not Specified

Pullability: Not Specified

Trim Sensitivity: Not Specified

Temp. Coefficient: Not Specified

Custom Designs Available

Build Your Own P/N

CSX2 - X X X - X X - Freq

Frequency Tolerance at 25°C	
A	±10 ppm
B	±25 ppm
C	±50 ppm

Frequency Stability over Temp Range		
A	±15 ppm	(-20 to 70°C)
B	±25 ppm	(-20 to 70°C)
C	±50 ppm	(-20 to 70°C)
D	±100 ppm	(-20 to 70°C)

Mode
"1" or "Blank" Fundamental 8 - 50 MHz
"3" 3 rd Overtone 40 - 100 MHz

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

Resistance at series resonance	
Freq. (MHz)	Max ESR (ohms)
8.0 - 10.0 (F)	150
>10.0 - 14.0 (F)	80
>14.0 - 50.0 (F)	50
40.0 - 100.0 (3 rd)	80

Table 1

Example:

CSX2-AB-18-44.736 = ±10ppm at 25°C, ±25ppm -20 to 70°C, Fundamental, 18pF Load Cap, 44.736 MHz

Specifications subject to change without notice.

TD-021010 Rev. L