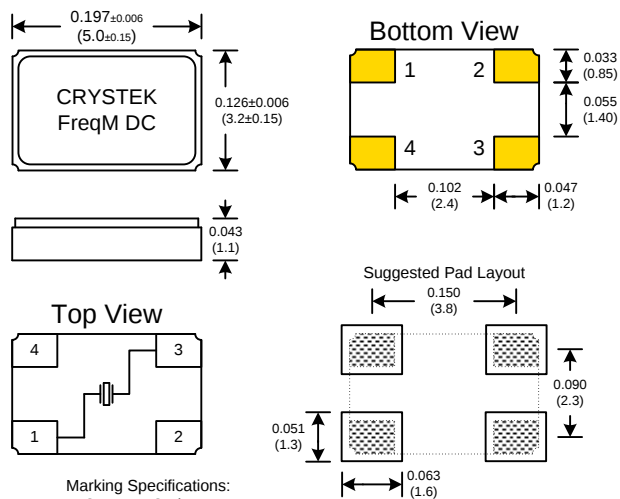
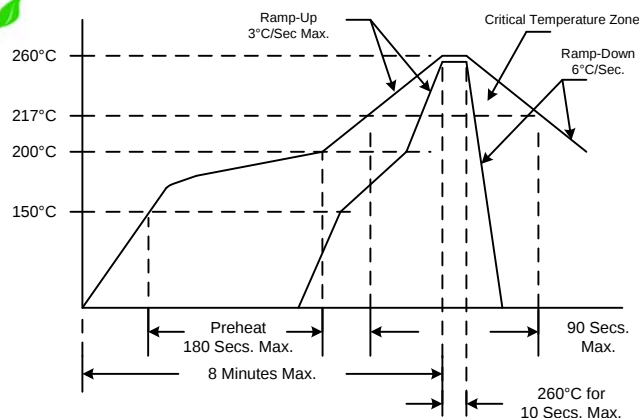


CSX3 Model

3.2×5.0 mm Ultra Miniature SMD Crystal



RECOMMENDED REFLOW SOLDERING PROFILE



Packaging Specifications:

1K ea. Tape and Real

Dimensions inches (mm)
All dimensions are maximum unless otherwise specified

Frequency Range: 8.000 MHz to 50.000 MHz (Fund)
40.000 MHz to 80.000 MHz (3rdOT)

Calibration Tolerance: ±10ppm to ±50ppm

Frequency Stability: ±15ppm to ±100ppm

Operating Temp. Ranges: -10°C to 70°C
-40°C to 85°C

Storage Temp. Range: -40°C to 85°C

Resistance: See Table 1

Shunt Cap: 5pF Max

Holder Type: 3.2×5.0mm SMD

Aging: ±3ppm/1st year Max

Drive level: 20uW 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

CSX3 - 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 (-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

"1" or "Blank"
Fundamental 8 - 50 MHz

"3"
3rd Overtone 40 - 80 MHz

Load Capacitance

S Series
10 10 pF
12 12 pF
13 13 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)	200
>10.0 - 14.0 (F)	150
>14.0 - 26.0 (F)	120
>26.0 - 50.0 (F)	60
40.0 - 80.0 (3 rd)	80

Table 1

Example:

CSX3-AB1-18-19.680 = ±10ppm at 25°C, ±25ppm -10 to 70°C,
Fundamental, 18pF Load Cap, 19.680MHz

Specifications subject to change without notice.

TD-021011 Rev. N

Mouser Electronics

Authorized Distributor

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[CSX3-AC1-16-25](#) [CSX3-AC-18-25.00](#)