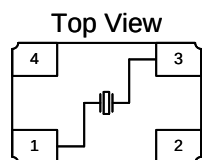
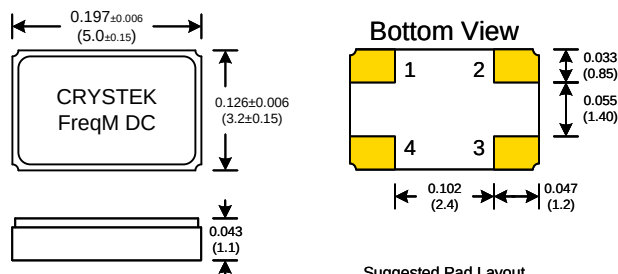


CSX3 Model

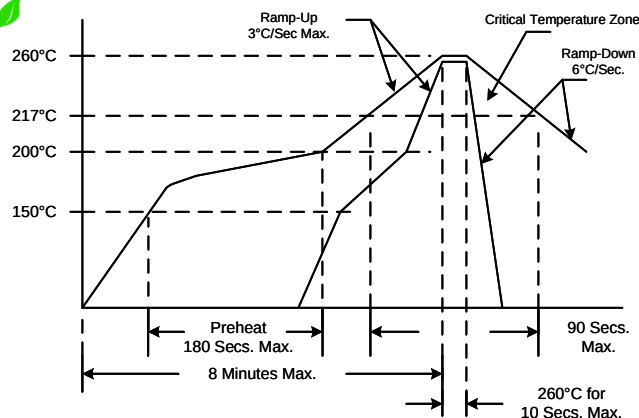
3.2x5.0 mm Ultra Miniature SMD Crystal



Marking Specifications:
*DC = Date Code



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

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: 3.2x5.0mm 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

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No liability is assumed as a result of its use or application.

CSX3

Rev. P