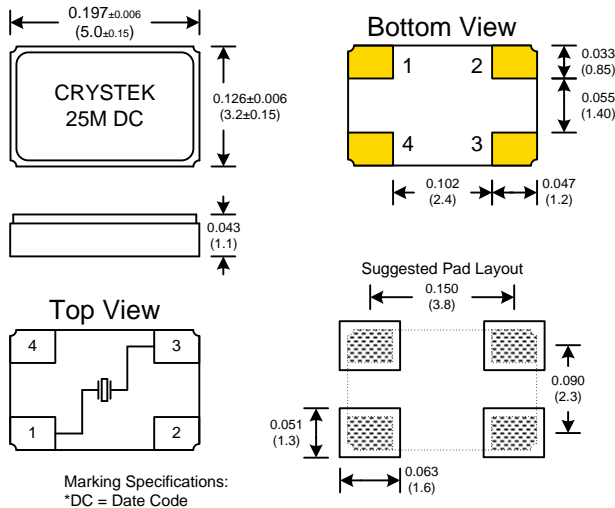


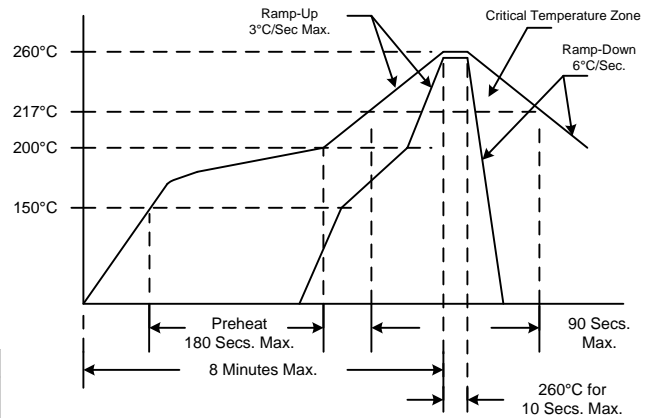
CSX3 Model

3.2x5.0 mm Ultra Miniature SMD Crystal



PIN	Signal
1	Crystal
2	GND
3	Crystal
4	GND

RECOMMENDED REFLOW SOLDERING PROFILE



Packaging Specifications:

1K ea. Tape and Real

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

Crystal Specifications

Frequency Range: 12.000MHz to 39.000MHz
Calibration Tolerance: ±10ppm to ±50ppm
Frequency Stability: ±10ppm 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

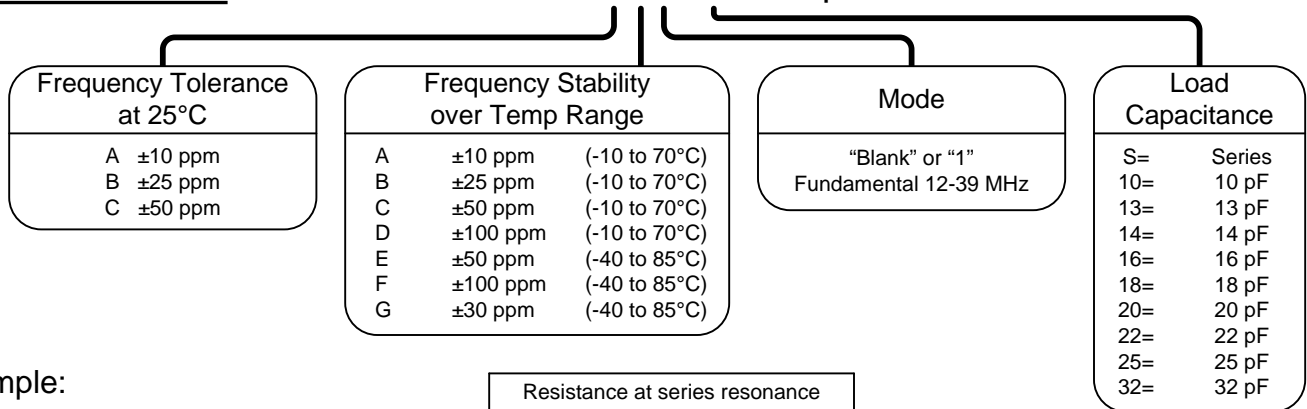
Aging: ±3ppm/1st yr Max
Drive level: 20uW Typical, 300uW Max
Motional Capacitance: Not Specified
Spurious Response: Not Specified
C0/C1 Ratio: Not Specified
Pullability: Not Specified
Trim Sensitivity: Not Specified
Temp. Coefficient: Not Specified



Custom Designs Available

Build Your Own P/N

CSX3-XXX-XX-Freq



Example:

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

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. J