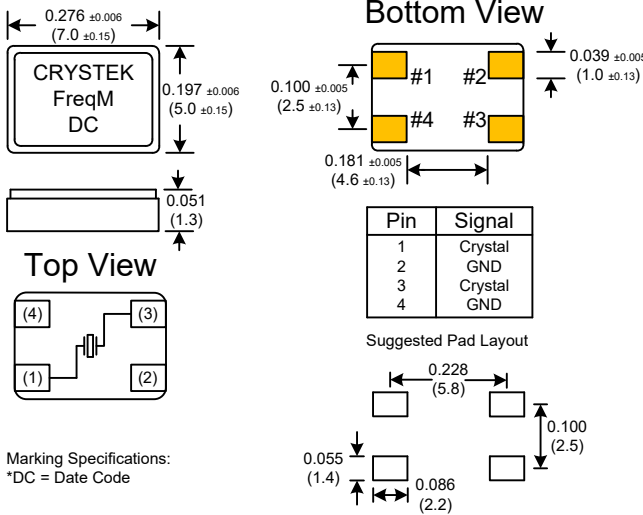


# Quartz Crystal

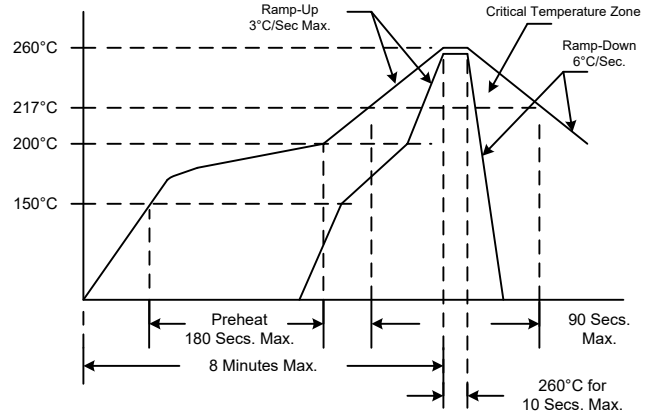
Designed to meet the precision and space requirements needed for wireless applications.

## CSX1 Model

5x7 mm Low Profile SMD Crystal



### RECOMMENDED REFLOW SOLDERING PROFILE



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

**Packaging Specifications:** 1K ea. Tape and Real

Frequency Range: 8.000 MHz to 50.000 MHz (Fund)  
40.000 MHz to 100.000 MHz (3<sup>rd</sup> OT)

Calibration Tolerance: ±10ppm to ±50ppm

Frequency Stability: ±15ppm to ±100ppm

Operating Temp. Ranges: 0°C to 70°C  
-20°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: 5x7mm SMD

Aging: ±3ppm/1<sup>st</sup> year Max

Drive level: 50uW Typical, 300uW Max

Motional Capacitance: Not Specified

Spurious Response: Not Specified

C0/C1 Ratio: Not Specified

Pullability: Not Specified

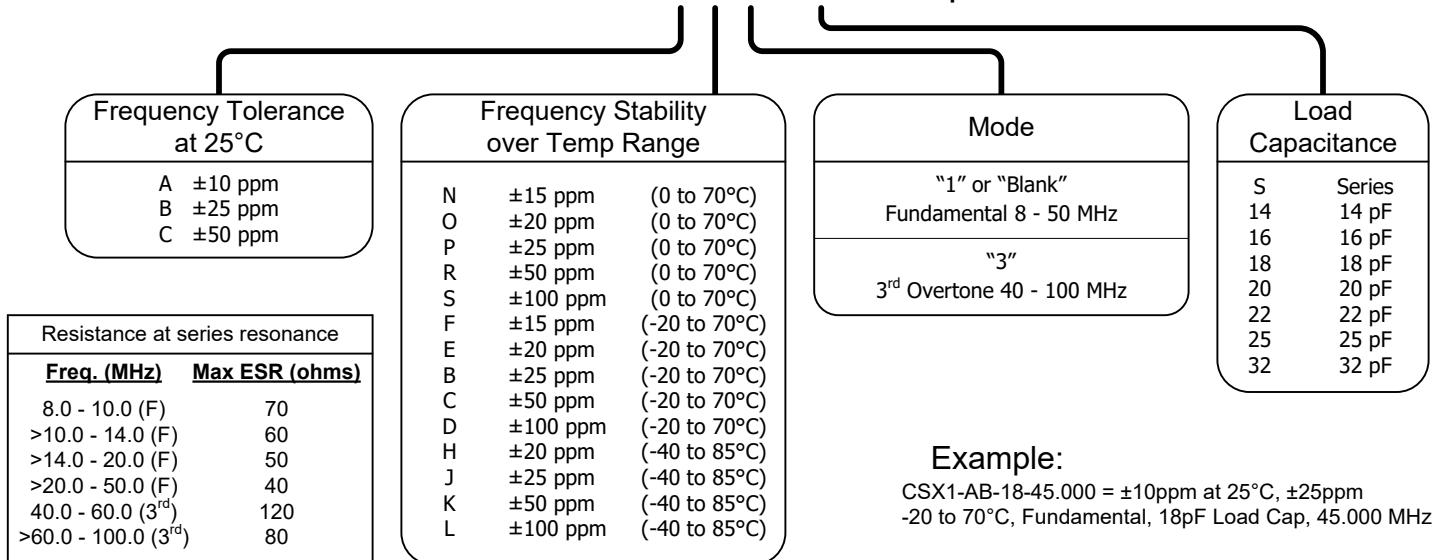
Trim Sensitivity: Not Specified

Temp. Coefficient: Not Specified

### Custom Designs Available

### Build Your Own P/N

CSX1 - X X X - XX - Freq



Resistance at series resonance	
Freq. (MHz)	Max ESR (ohms)
8.0 - 10.0 (F)	70
>10.0 - 14.0 (F)	60
>14.0 - 20.0 (F)	50
>20.0 - 50.0 (F)	40
40.0 - 60.0 (3 <sup>rd</sup> )	120
>60.0 - 100.0 (3 <sup>rd</sup> )	80

Table 1

**Example:**  
CSX1-AB-18-45.000 = ±10ppm at 25°C, ±25ppm  
-20 to 70°C, Fundamental, 18pF Load Cap, 45.000 MHz

Specifications subject to change without notice.

CSX1 Rev. K