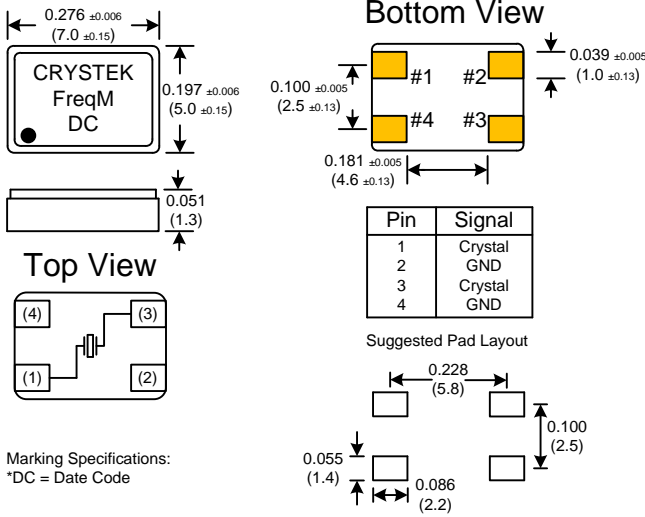


# Quartz Crystal

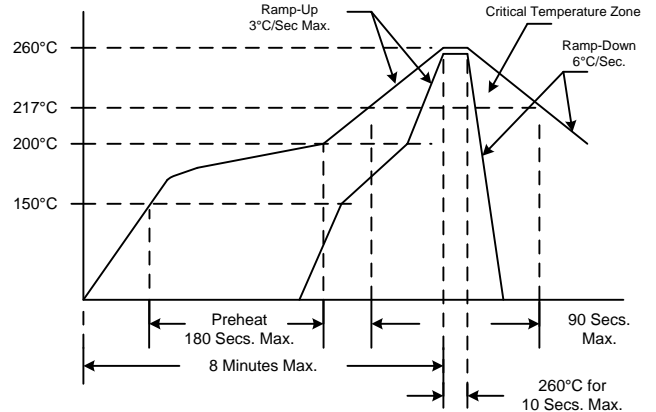
Designed to meet the precision and space requirements needed for wireless applications.

## 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

Frequency Tolerance at 25°C	Frequency Stability over Temp Range	Mode	Load Capacitance
A ±10 ppm	N ±15 ppm (0 to 70°C)	"1" or "Blank"	S Series
B ±25 ppm	O ±20 ppm (0 to 70°C)	Fundamental 8 - 50 MHz	14 14 pF
C ±50 ppm	P ±25 ppm (0 to 70°C)	"3"	16 16 pF
	R ±50 ppm (0 to 70°C)	3 <sup>rd</sup> Overtone 40 - 100 MHz	18 18 pF
	S ±100 ppm (0 to 70°C)		20 20 pF
	F ±15 ppm (-20 to 70°C)		22 22 pF
	E ±20 ppm (-20 to 70°C)		25 25 pF
	B ±25 ppm (-20 to 70°C)		32 32 pF
	C ±50 ppm (-20 to 70°C)		
	D ±100 ppm (-20 to 70°C)		
	H ±20 ppm (-40 to 85°C)		
	J ±25 ppm (-40 to 85°C)		
	K ±50 ppm (-40 to 85°C)		
	L ±100 ppm (-40 to 85°C)		

### Example:

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

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

Specifications subject to change without notice.

TD-021009 Rev. J

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