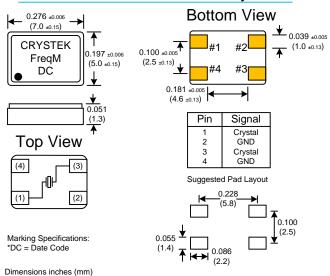


Compliant

#### **CSX1 Model**

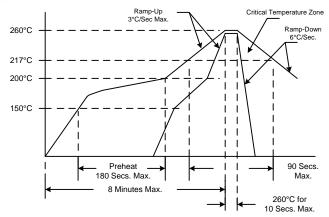
5×7 mm Low Profile SMD Crystal



### Quartz Crystal

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

#### 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

All dimensions are maximum unless otherwise specified

-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:
Spurious Response:
C0/C1 Ratio:
Pullability:
Not Specified

**Custom Designs Available** 

#### **Build Your Own P/N**

CSX1 - X X X - XX - Freq

## Frequency Tolerance at 25°C A ±10 ppm B ±25 ppm C ±50 ppm

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

Frequency Stability		
over Temp Range		

N	±15 ppm	(0 to 70°C)
0	±20 ppm	(0 to 70°C)
Р	±25 ppm	(0 to 70°C)
R	±50 ppm	(0 to 70°C)
S	±100 ppm	(0 to 70°C)
F	±15 ppm	(-20 to 70°C)
Ε	±20 ppm	(-20 to 70°C)
В	±25 ppm	(-20 to 70°C)
С	±50 ppm	(-20 to 70°C)
D	±100 ppm	(-20 to 70°C)
Н	±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)
		,

# Mode "1" or "Blank" Fundamental 8 - 50 MHz "3" 3<sup>rd</sup> Overtone 40 - 100 MHz

(	-oad `	
Capacitance		
S	Series	
14	14 pF	
16	16 pF	
18	18 pF	
20	20 pF	
22	22 pF	
25	25 pF	
32	32 pF	

#### 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.

TD-021009 Rev. J

