CRYSTEK CRYSTALS
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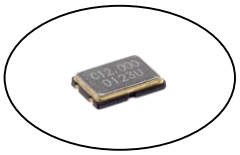
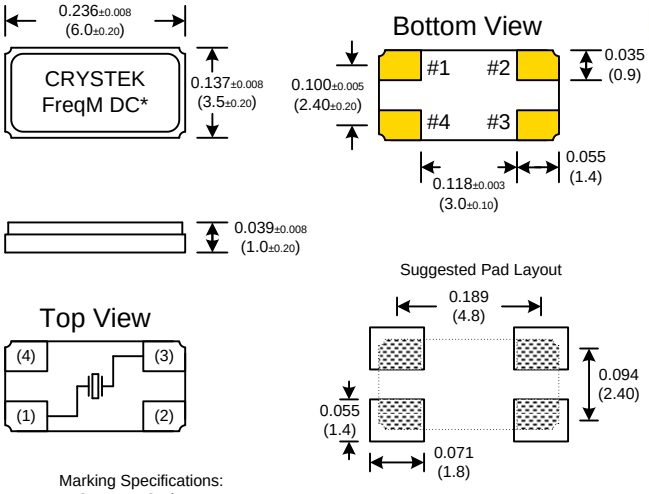


Quartz Crystal

CSX2 Model

3.5×6.0 mm Low Profile SMD Crystal

RoHS Compliant

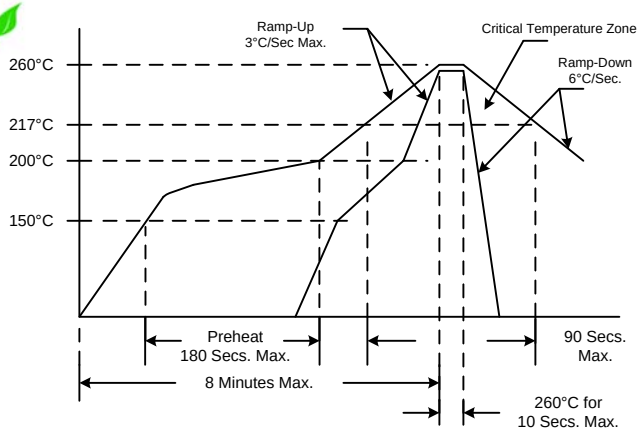


Marking Specifications:
*DC = Date Code

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

PIN	Signal
1	Crystal
2	GND
3	Crystal
4	GND

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 (3rd OT)
Calibration Tolerance:	±10ppm to ±50ppm
Frequency Stability:	±15ppm to ±100ppm
Operating Temp. Ranges:	-20°C to 70°C
Storage Temp. Range:	-40°C to 85°C
Resistance:	See Table 1
Shunt Cap:	5pF Max
Holder Type:	3.5×6.0mm SMD

Aging:	±3ppm/1st yr 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

CSX2 - 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	(-20 to 70°C)
B	±25 ppm	(-20 to 70°C)
C	±50 ppm	(-20 to 70°C)
D	±100 ppm	(-20 to 70°C)

Mode

"1" or "Blank" Fundamental 8 - 50 MHz
"3" 3rd Overtone 40 - 100 MHz

Load Capacitance

S	Series
12	12 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)	150
>10.0 - 14.0 (F)	80
>14.0 - 50.0 (F)	50
40.0 - 100.0 (3rd)	80

Table 1

Example:

CSX2-AB-18-44.736 = ±10ppm at 25°C, ±25ppm -20 to 70°C, Fundamental, 18pF Load Cap, 44.736 MHz

Specifications subject to change without notice.

TD-021010 Rev. L

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