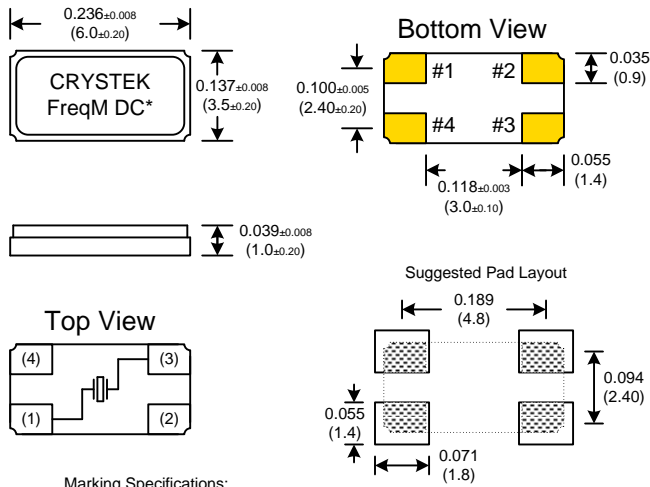


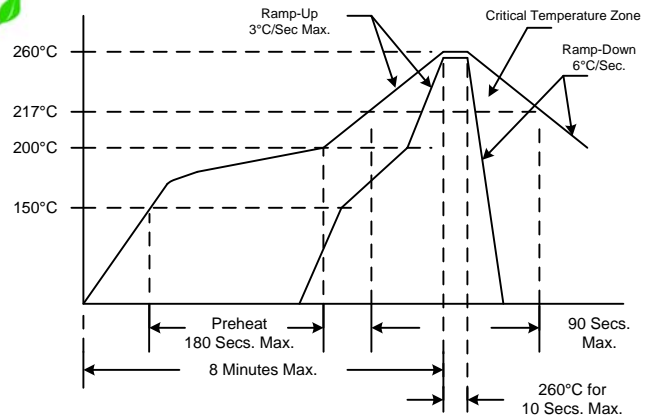
Quartz Crystal

CSX2 Model

3.5x6.0 mm Low Profile SMD Crystal



RECOMMENDED REFLOW SOLDERING PROFILE



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

| PIN | Signal |
|-----|---------|
| 1 | Crystal |
| 2 | GND |
| 3 | Crystal |
| 4 | GND |

Packaging Specifications:

1K ea. Tape and Real

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

- Frequency Range: 8.000 MHz to 50.000 MHz (Fund)
40.000 MHz to 100.000 MHz (3rdOT)
- 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: 3.5x6.0mm 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" 3 rd 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 (3 rd) | 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