

# Quality Products and Superior Service Since 1958

## **Quartz Crystals**

- Thru-hole Crystals from 32.768KHz to 125Mhz
- Surface Mount Crystals from 1.5Mhz to 125Mhz
- Metal, ceramic and plastic Models
- Tight tolerance / stabilities available

Crystek manufactures a broad line of frequency control devices. Crystek also offers custom Quartz Crystals design and competitor replacement solutions. Please contact one of our factory representatives or our head quarters directly for oscillator solutions not found on our website. Crystek maintains a complete design and production facility in Fort Myers, Florida to assist in providing frequency solutions.



**C15-SMD** 32.768KHz Ultra-Miniature Tuning Fork Watch Crystal Profile 1.5mm

Frequency 32.768KHz Output: **Crystal** 



Certificate # 12520 10/20/2000



C153-SMD 32.768KHz SMD Tuning Fork Watch Crystal

Package 3.2x1.5mm Frequency 32.768KHz Output: **Crystal** 



C195-SMD 32.768KHz SMD Tuning Fork Watch Crystal

Package 4.9x1.8mm Frequency 32.768KHz

Output: Crystal



C26 & C38 32.768KHz Turning Fork Watch Crystal

Package 2x6mm & 3x8mm Frequency 32.768KHz

Output: Crystal



C26-LF & C38-LF 32.768KHz Tuning Fork Watch Crystal

Package 2x6mm & 3x8mm Frequency 32.768KHz

Output: Crystal



C26-SMD 32.768KHz SMD Tuning Fork Watch Crystal

Profile 2.5mm

Frequency 32.768KHz

Output: Crystal



CMD4A Surface Mount Quartz Crystal Plastic Model Replacement Solution Profile 4mm, 4.5mm, and 5.5mm Frequency Range 3.57945MHz to 86MHz Stability 10-100ppm 0/70C & 20-100ppm -40/85C

Output: Crystal



CRMxx Miniature Size Quartz Crystal Frequency Range 10MHz to 135MHz Stability 10-100ppm 0/70C & 20-100ppm -40/85C

Output: Crystal



CSX1 Ceramic 5x7mm Surface Mount Quartz Crystal

Profile 1.3mm

Frequency Range 8MHz to 49.152MHz

Stability 10-100ppm -20/70 & 20-100ppm -40/85C

Output: Crystal



CSX2 Ceramic 3.5x6mm Surface Mount Quartz Crystal

Profile 1.0mm

Frequency Range 12.8MHz to 45MHz

Stability 10-100ppm -20/70C

Output: Crystal



CSX3 Ceramic 3.2x5mm Surface Mount Quartz Crystal

Profile 1.0mm

Frequency Range 12.8MHz to 45MHz

Stability 10-100ppm -20/70C

Output: Crystal



### **CSX1 Model**

5X7 mm Low Profile SMD Crystal

Frequency Range: 8MHz to 49.152MHz (fund)

**Calibration Tolerance:** ±10ppm to ±50ppm Frequency Stability: ±10ppm to ±100ppm

**Temperature Ranges:** 0°C to 70°C

-20°C to 70°C -40°C to 85°C

Storage: -40°C to 85°C Shunt Capacitance: 5.0pF Max

**Drive Level:** 50 uW Typical, 300uW Max

Aging: ± 3ppm Max 1st/yr

**ESR:** see table 1

Packaging: 1K Tape and Reel

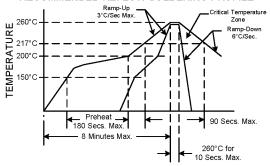
\*\* Custom Designs Available

# Quartz Crystal



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

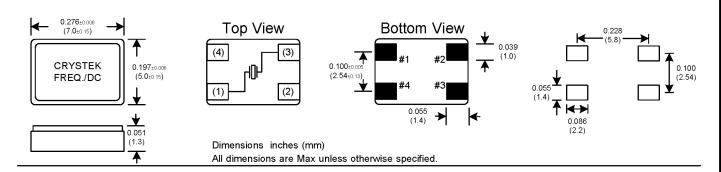
#### RECOMMENDED REFLOW SOLDERING PROFILE



NOTE: Reflow Profile with 240°C peak also acceptable

Load

Capacitance



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

# CSX1-XX-XX-Freq

(-40 to 85°C)

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

B ±25 ppm C ±50 ppm

#### Example:

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

### Frequency Stability over Temp Range

М	±10 ppm	(0 to 70°C)
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)
Α	±10 ppm	(-20 to 70°C)
Е	±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)

±100 ppm

### Resistance at series resonance Freq. (MHz) Max ESR 8.0 - 20.0 (F) 20.1 - 49.0 (F) Table 1

PIN	Signal
1	Crystal
2	GND
3	Crystal
4	GND

S= Series 14= 14 pF 16= 16 pF 18 pF 18= 20 pF 20= 22= 22 pF 25= 25 pF 32 pF

Specifications subject to change without notice.

TD-021009 Rev. E

