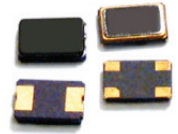


# Miniature Quartz Crystal Ceramic SMD

**F6 FX**


Actual Size



## Product Description

The F6 2-pad and FX 4-pad Series incorporate a sub-miniature AT-cut strip crystal resonator housed in a 3.5x6 mm ceramic package. These compact crystals are ideal for surface mounting in densely-populated PCB applications.

## Product Features

- Tight tolerance & stability
- Rugged construction and excellent mechanical shock resistance
- Extremely compact SMD package
- Available on tape & reel; 12mm tape, 1000pcs per reel
- FX: Pb-free and RoHS/Green compliant
- F6: ROHS compliant

## Typical Applications

- Ideally suited for disc drives, PCMCIA, PCs and hand-held electronic products

## Common Frequencies

Contact SaRonix for additional frequencies

38.8000 MHz,	62.5000 MHz
66.0000 MHz	66.6667 MHz
75.0000 MHz	77.7600 MHz
100.0000 MHz	106.2500 MHz
125.0000 MHz	133.0000 MHz
150.0000 MHz	155.5200 MHz
156.2500 MHz	160.0000 MHz

## Frequency Range:

- 6.0000 MHz to 56.0000 MHz (Fundamental)
- 30.0000+ MHz to 56.0000 MHz (3rd Overtone)

## Temperature Range:

- Operating: -20 to +70°C, -40 to +85°C
- Storage: -40 to +85°C

## Temperature Tolerance:

- $\pm 10, \pm 20, \pm 30, \pm 50$ ppm, -20 to +70°C
- $\pm 30, \pm 50$ ppm, -40 to +85°C

## Characteristics at 25°C $\pm 3^\circ\text{C}$ :

- Frequency Calibration:  $\pm 10, \pm 20, \pm 30$
- Load Capacitance: 10 to 32pF or Series Resonance
- Effective Series Resistance:
- Fundamental: 20 $\Omega$  to 80 $\Omega$  depending on frequency
- 3rd Overtone: 60 $\Omega$  to 80 $\Omega$  depending on frequency
- Standard Drive Level: 10 $\mu\text{W}$
- Shunt Capacitance: 5pF max

## Aging at 25°C, First Year:

- $\pm 3$ ppm Max.

## Mechanical:

- $\pm 5$ ppm max after 3 drops from 75cm onto a hard wooden board
- Solderability: JESD22-B102-D Method 2 (Preconditioning E)
- Vibration:  $\pm 5$ ppm max sine vibration 10~55Hz, sweep period 1-2 minutes, amp. 1.5mm, 3 mutually perpendicular planes each 1 hour
- Solvent Resistance: MIL-STD-202, Method 215
- Resistance to Soldering Heat: J-STD-020C Table 5-2 Pb-free devices (3 cycles max)

## Environmental:

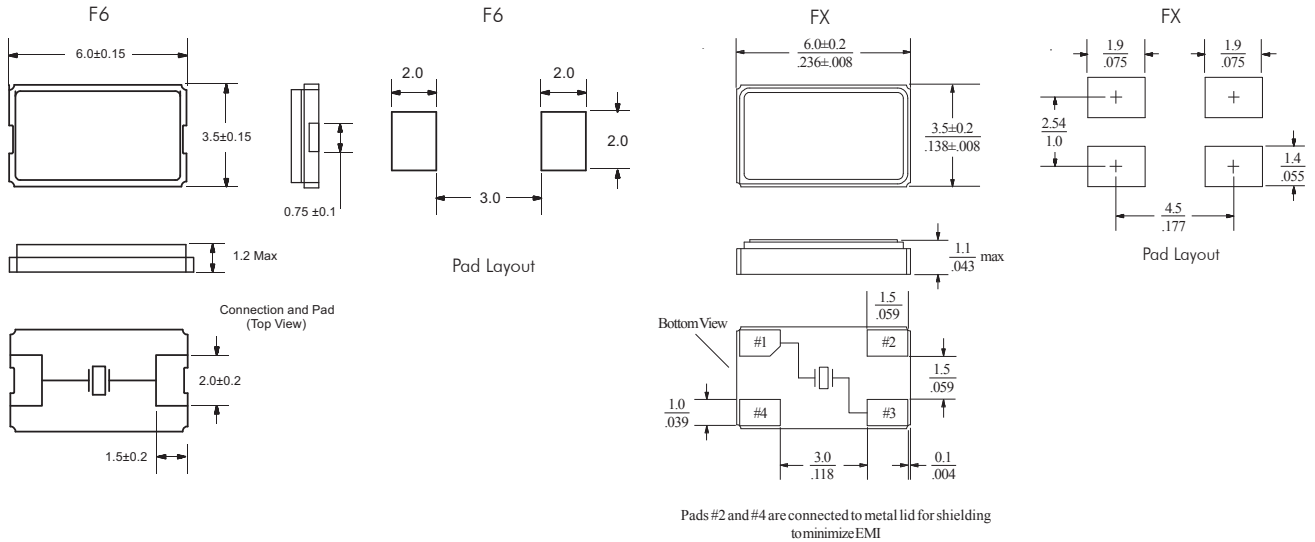
- Gross Test Leak: MIL-STD-883, Method 1014, Condition C
- Fine Test Leak: MIL-STD-883, Method 1014, Condition A2
- Thermal Shock: MIL-STD-883, Method 1011, Condition A
- Moisture Resistance: MIL-STD-883, Method 1004

## Reflow Temperature:

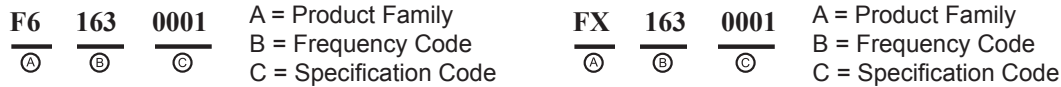
- 260°C Max, 10 sec max

## Mechanical Drawings: 6 x 3.5 Ceramic SMD

### Package Details

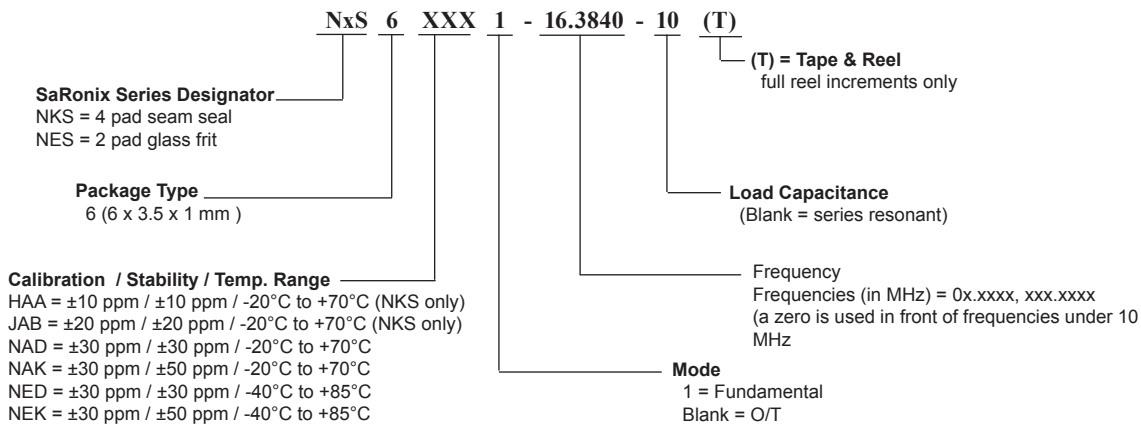

 Scale: None (Dimensions in  $\frac{mm}{inches}$ )

## New Part Number Example



Note: After July 1, 2007, a Saronix - eCera part number following the above format will be assigned upon confirmation of exact customer requirements.

## Legacy Ordering Information



### Part Number Example:

Spec: Freq 8.1234MHz, ±30ppm calib, ±30ppm stab, -20 to +70°C, 16pF, T&amp;R = NKS6NAD1-08.1234-16(T)

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