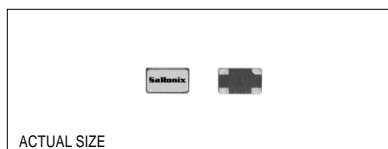


### Technical Data

### NKS6 Series



#### Description

The NKS6 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.

#### Applications & Features

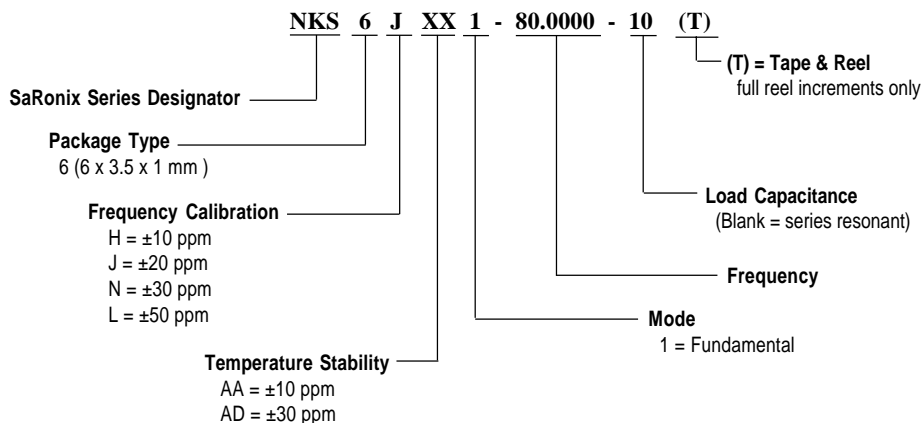
- Tight tolerance & stability
- Rugged construction and excellent mechanical shock resistance
- Extremely compact SMD package
- Seam sealed, grounded metal lid
- Ideally suited for disc drives, PCMCIA, PCs and hand-held electronic products
- Available on tape & reel; 12mm tape, 1000pcs per reel

#### Common Frequencies (MHz)

12.800000  
 13.000000  
 13.824000  
 14.400000  
 16.384000  
 19.200000  
 19.680000  
 20.945000  
 21.250000  
 21.390000

<b>Frequency Range:</b>	12 MHz to 50 MHz (Fundamental)
<b>Temperature Range:</b>	Operating: -20 to +70°C Storage: -40 to +85°C
<b>Temperature Tolerance:</b>	±10, ±30ppm, tighter available, contact SaRonix
<b>Characteristics @ 25°C ±3°C:</b>	Frequency Tolerance: ±10, ±20, ±30, ±50ppm Load Capacitance: 10 to 32pF or Series Resonance Effective Series Resistance: 50Ω max Standard Drive Level: 10μW Shunt Capacitance: 5pF max
<b>Aging:</b>	±2ppm max per year
<b>Mechanical:</b>	Shock: ±5ppm max after 3 drops from 75cm onto a hard wooden board Solderability: MIL-STD-883, Method 2003 Vibration: ±5ppm max sine vibration 10-55Hz, sweep period 1-2 minutes, amplitude 1.5mm, 3 mutually perpendicular planes each 1 hour. Solvent Resistance: MIL-STD-202, Method 215 Resistance to Soldering Heat: MIL-STD 202, Method 210, Condition I or J
<b>Environmental:</b>	Gross Leak Test: MIL-STD-883, Method 1014, Condition C Fine Leak Test: MIL-STD-883, Method 1014, Condition A2 Thermal Shock: MIL-STD-883, Method 1011, Condition A Moisture Resistance: MIL-STD-883, Method 1004

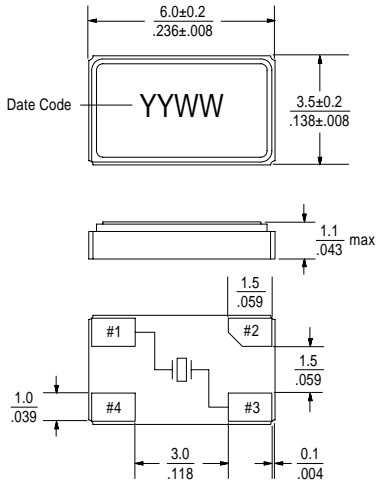
#### Part Numbering Guide



### Technical Data

NKS6 Series

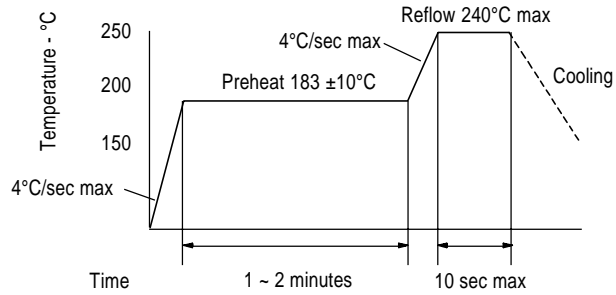
#### Package Details



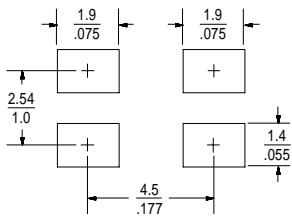
Pads #2 and #4 are connected to metal lid for shielding to minimize EMI

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

#### Solder Reflow Guide



#### Recommended Land Pattern



All specifications are subject to change without notice.

DS-192 REV B