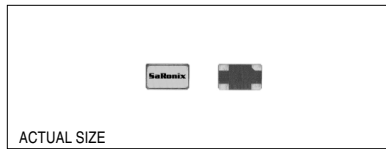


### Technical Data

### 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

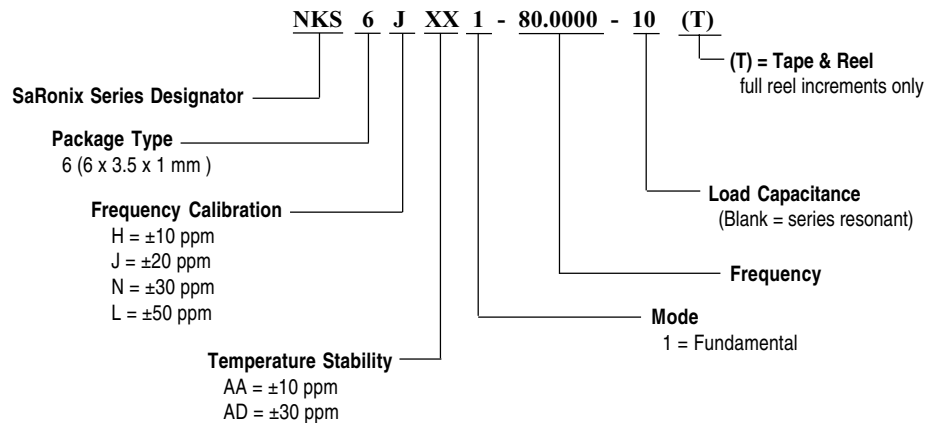
- Tight tolerance & stability
- Rugged construction and excellent mechanical shock resistance
- Extremely compact SMD package
- Seam sealed, grounded metal lid
- Ideally suited for disc drives, PCMCIA, PCs and hand-held electronic products
- Available on tape & reel; 12mm tape, 1000pcs per reel

#### 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

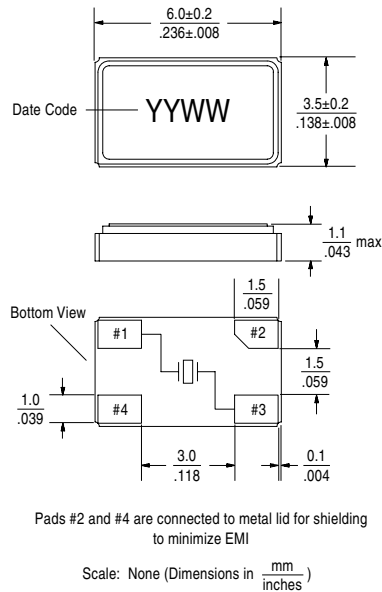
#### Part Numbering Guide



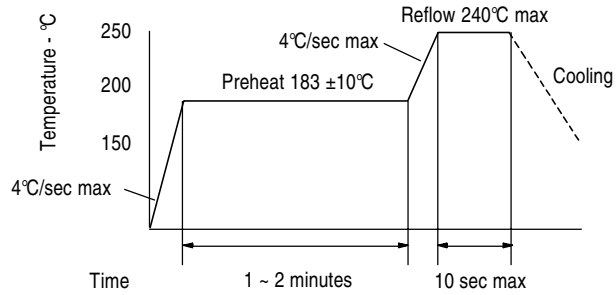
### Technical Data

### NKS6 Series

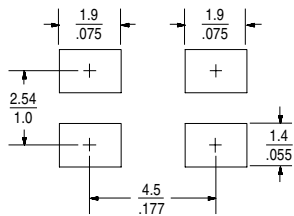
#### Package Details



#### Solder Reflow Guide



#### Recommended Land Pattern



All specifications are subject to change without notice.

DS-192 REV B