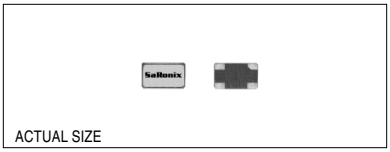
SaRonix

Miniature Quartz Crystals

Ceramic, SMD

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

Frequency Range:	12 MHz to 50 MHz (Fundamental)
Temperature Range:	
Operating:	-20 to +70°C
Storage:	-40 to +85°C
Temperature Tolerance:	±10, ±30ppm, tighter availabe, contact SaRonix
Characteristics @ 25°C ±3°C:	
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
Aging:	±2ppm max per year
Mechanical:	
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
Environmental:	
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

NKS 6 J XX 1 - 80.0000 - 10 (T)

SaRonix Series Designator

Package Type
6 (6 x 3.5 x 1 mm)

Frequency Calibration
H = ±10 ppm
J = ±20 ppm
N = ±30 ppm
L = ±50 ppm

Temperature Stability
AA = ±10 ppm
AD = ±30 ppm

Mode
1 = Fundamental

Frequency

Load Capacitance
(Blank = series resonant)

(T) = Tape & Reel
full reel increments only

DS-192 REV B

SaRonix 141 Jefferson Drive • Menlo Park, CA 94025 • USA • 650-470-7700 • 800-227-8974 • Fax 650-462-9894

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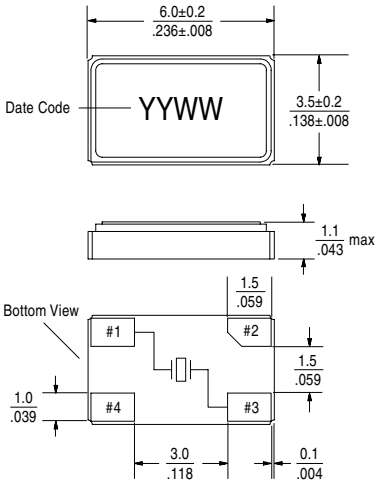
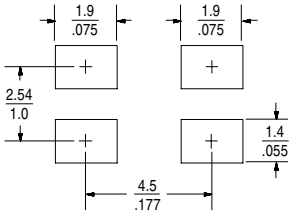
Package Details



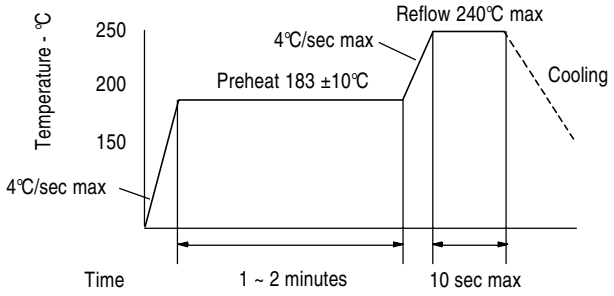
Pads #2 and #4 are connected to metal lid for shielding to minimize EMI

Scale: None (Dimensions in mm / inches)

Recommended Land Pattern



Solder Reflow Guide



All specifications are subject to change without notice.

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