



FL Series Quartz Crystal Legacy NKS3 Series 3.2 x 2.5mm

Miniature Quartz Crystal Ceramic SMD



3.2 x 2.5mm Ceramic SMD

Product Description

The 4-pad FL series seam seal devices incorporate a sub-miniature AT-cut crystal resonator housed in a standard 3.2 x 2.5mm ceramic package.

These compact crystals are ideal for surface mounting in densely populated or small formfactor PCB applications.

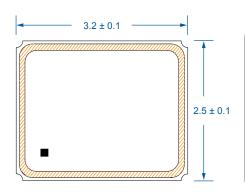
Product Features

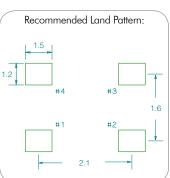
- Rugged AT-cut crystal construction
- Miniature 3.2 x 2.5mm ceramic package
- Available on tape & reel; 8mm tape, 3000 units per reel
- Pb-free and RoHS/Green compliant

Typical Applications

- GSM, CDMA, GPRS
- PCMCIA Cards
- Portable / hand-held PCs
- Notebook PC
- HDD
- GPS
- Bluetooth
- Wireless LAN
- UWB
- ZigBee
- Digital Tuner

Package: (Scale: none; dimensions are in mm)



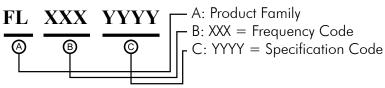




Pin Functions: Function Pin Xtal 1 2 Case 3 Xtal 4 Case

1.	2 1.0
	0.9
1	2
	0.7
4	3
	0.1
	<u> </u>

Part Ordering Information:



Following the above format, Saronix-eCera part numbers will be assigned upon confirmation of exact customer requirements.

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FL Series Quartz Crystal Legacy NKS3 Series | 3.2 x 2.5mm

Frequency Range:

• 8 MHz to 66.0000 MHz (Fundamental)

Characteristics at 25°C ±2°C:

- Frequency Calibration Tolerance: ±10ppm, ±20ppm, or ±30ppm
- Load Capacitance: 8 to 32pF or Series Resonance
- Effective Series Resistance (ESR):

 500Ω max (8 to 11.9 MHz)

 80Ω max (12 to 19.9 MHz)

 60Ω max (20 to 29.9 MHz)

 40Ω max (30 to 66 MHz)

- Drive Level: $10\mu W$ typ. $(100\mu W \text{ max})$
- Shunt Capacitance: 5pF Max

Temperature Range:

- Operating: -20 to +70°C or -40 to +85°C or -40 to +125°C
- Storage: -55 to +125°C

Temperature Stability:

- ± 10 ppm, ± 20 ppm, ± 30 ppm, or ± 50 ppm (-20 to +70°C)
- ± 30 ppm, or ± 50 ppm (-40 to +85°C)
- ±50ppm, or ±70ppm (-40 to 125°C)

Aging at 25°C, First Year:

• ±3ppm Max

Reflow Temperature:

• 260°C Max, 10 seconds Max

Mechanical

•Shock: JESD22-B104 Condition B

•Solderability: J-STD-002

Terminal Strength: MIL-STD-883 Method 2004

•Vibration: JESD22-B103

Solvent Resistance: JESD22-B107

• Resistance to Soldering Heat: J-STD-020C Table 5-2 Pb-free devices (3 cycles max)

Environmental

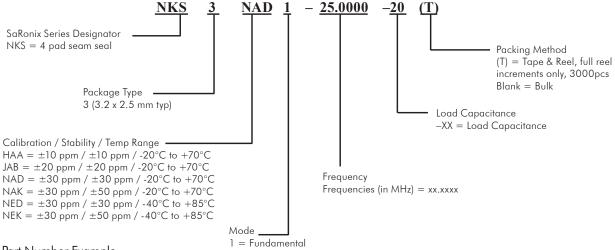
• Gross Test Leak: JESD22-A109, Condition C

• Fine Test Leak: JESD22-A109, Condition A1

Moisture Resistance: JESD22-A113

•Insulation Resistance: $500 \, M\Omega \, min \, (100 \, VDC)$

Legacy Ordering Information - For Reference Only:



Part Number Example:

Spec: Freq 18.1234MHz, ± 30 ppm calib, ± 30 ppm stab, -20 to +70°C, 16pF, T&R = NKS3NAD1-18.1234-16(T)

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