

A product Line of Diodes Incorporated

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.

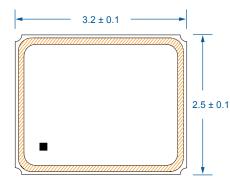
Product Features

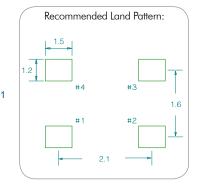
- Rugged AT-cut crystal construction
- Miniature 3.2 x 2.5mm ceramic package
- Available on tape & reel; 8mm tape, 3000 units per reel
- Pb-free and RoHS/Green compliant

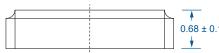
Typical Applications

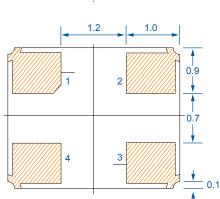
- GSM, CDMA, GPRS
- PCMCIA Cards
- Portable / hand-held PCs
- Notebook PC
- HDD
- GPS
- Bluetooth
- Wireless LAN
- UWB
- ZigBee
- Digital Tuner

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





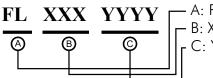




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FII	Functions:	

Pin	Function
1	Xtal
2	Case
3	Xtal
4	Case

Part Ordering Information:



— A: Product Family — B: XXX = Frequency Code — C: YYYY = Specification Code

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

TEL:0755-33270075 QQ:1242727788 url:www.ruitairt.com

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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: $\pm 10 \text{ppm}, \, \pm 20 \text{ppm}, \, \text{or} \, \pm 30 \text{ppm}$
- 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. ($100\mu W$ 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:

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

Aging at 25°C, First Year:

• ±3ppm Max

Reflow Temperature:

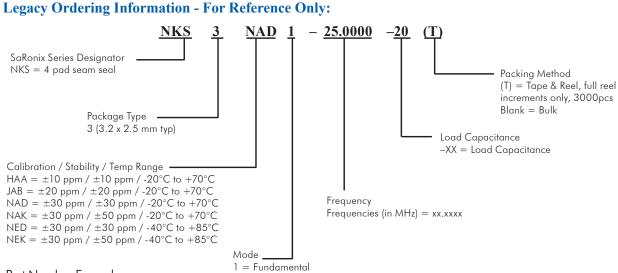
• 260°C Max, 10 seconds Max

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 Ω min (100 VDC)



Part Number Example:

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

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All specifications are subject to change without notice.