Shock: JESD22-B104 Condition B

Solvent Resistance: JESD22-B107

•Terminal Strength: MIL-STD-883 Method 2004

• Gross Test Leak: JESD22-A109, Condition C

• Fine Test Leak: JESD22-A109, Condition A1

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

Moisture Resistance: JESD22-A113

• Resistance to Soldering Heat: J-STD-020C Table 5-2 Pb-free

•Solderability: J-STD-002

•Vibration: JESD22-B103

devices (3 cycles max)

**Environmental** 

Mechanical



# A product Line of PERICOM

FH Series Quartz Crystal Legacy NKS2 Series | 2.5 x 2.0mm

## **Frequency Range:**

• 12 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: 7 to 32pF or Series Resonance
- Effective Series Resistance (ESR):
  - 150Ω max (12 to 19.9 MHz)
  - 80Ω max (20 to 29.9 MHz)
  - $60\Omega$  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

# **Temperature Stability:**

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

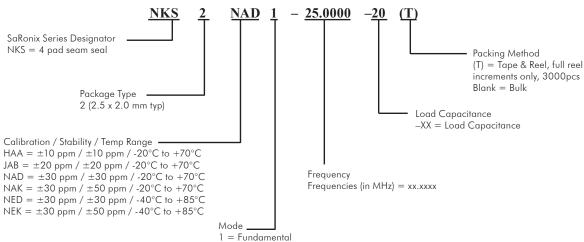
## Aging at 25°C, First Year:

### •±3ppm Max

### **Reflow Temperature:**

•260°C Max, 10 seconds Max

# Legacy Ordering Information - For Reference Only:



### Part Number Example:

Spec: Freq 20MHz, ±30ppm calib, ±30ppm stab, -20 to +70°C, 16pF, T&R = NKS2NAD1-20.0000-16(T)



# A product Line of Diodes Incorporated

# FH Series Quartz Crystal Legacy NKS2 Series | 2.5 x 2.0mm

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