NF7 Series

SMD Crystal

Size, mm
7.0 x 5.0 x 1.5

Frequency Stability
±30 PPM

Temperature Range
-10°C to 70°C

Frequency Range
8.0-80.0 MHz

Features
• Meets NEL requirements for product reliability
• User specified tolerance available
• Leadless ceramic package
• Suitable for reflow soldering
• Wide frequency range 8.0 MHz to 80.0 MHz
• Automatic mounting
• Shock resistance: drop test of 3 times on 2 mm stainless plate from 75 cm height
• Glass sealed

Creating a Part Number

NEL
Type
7.0 x 5.0 x 1.5 mm - 4 pad
Frequency (MHz)
Frequency Tolerance @25°C
A: ±30 ppm
B: ±50 ppm
X: Specify

Load Capacitance
Series, 16 pF, 20 pF, 30 pF, 32 pF, Specify
Frequency Stability
A: ±30 ppm
B: ±50 ppm
X: Specify

Operating Temp. Characteristics
A: -10° to 70°C
B: -20° to 70°C

Aging
A: ±3 ppm/year
B: ±5 ppm/year

Electrical Specifications

Frequency Range | 8.000 MHz to 80.000 MHz
Frequency Tolerance (at 25°C) | ±30 ppm, ±50 ppm, or specify
Frequency Stability Over | -10°C to 70°C ±30 ppm
Operating Temp. Characteristics | -20°C to 70°C ±50 ppm or specify
Storage Temperature | -55°C to 125°C
Operating Temperature Range | -40°C to 85°C
Shunt Capacitance | 5.0 pF Max
Drive Level (Typical) | 10 µW
Load Capacitance (C L) Series | 16 pF, 20 pF, 30 pF, 32 pF or specify
Aging @ 25°C 1st year (Max) | ±3 ppm, ±5 ppm/year
Equivalent Series Resistance | Frequency Range E.S.R. (Ω) Max
Mode: Fundamental/AT | 8.000 to 10.000 MHz 70
| 10.000 to 30.000 MHz 40
Mode: 3rd Overtone/AT | 30.000 to 45.000 MHz 60
| 45.000 to 80.000 MHz 50

Drawing Specifications

Dimensions shown in millimeters.