

NFP Series

SMD Crystal

Size, mm
7.0 x 5.0 x 1.1
Frequency Stability
±30 PPM
Temperature Range
-10°C to 70°C
Frequency Range
0.0-100.0 MHz

Features

- Meets NEL requirements for product reliability
- User specified tolerance available
- Leadless ceramic package
- Suitable for reflow soldering
- Wide frequency range 0.0 MHz to 100.0 MHz
- Automatic mounting
- Shock resistance: drop test of 3 times on 2 mm stainless plate from 75 cm height
- Seam sealed

SMD Crystal NFP Series

Frequency Range: 0.0 MHz to 100.0 MHz

Creating a Part Number

NFP - 30.000 - X - X - X - X - X - X

<p>NEL</p> <p>Type 7.0 x 5.0 x 1.1 mm - 4 pad</p> <p>Frequency (MHz)</p> <p>Frequency Tolerance @25°C A: ±30 ppm B: ±50 ppm X: Specify</p> <p>Drive Level 10 µW to 100 µW</p>		<p>Load Capacitance Series, 16 pF, 20 pF, 30 pF, 32 pF, Specify</p> <p>Frequency Stability A: ±30 ppm B: ±50 ppm X: Specify</p> <p>Operating Temp. Characteristics A: -10° to 70°C B: -20° to 70°C</p> <p>Aging A: ±3 ppm/year B: ±5 ppm/year</p>
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Electrical Specifications

Frequency Range	0.000 MHz to 100.000 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 to 100 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	0.000 to 10.000 MHz	70
	10.000 to 30.000 MHz	40
Mode: 3rd Overtone/AT	30.000 to 100.000 MHz	60

Drawing Specifications

Top View Dimensions:
 Overall width: 7.0 ± 0.2 mm
 Overall height: 5.0 ± 0.2 mm
 Pad width: 1.1 Max mm
 Pad spacing: 1.14 mm

Bottom View Dimensions:
 Pad width: 1.0 ± 0.2 mm
 Pad spacing: 1.2 mm
 Pad diameter: 2.54 ± 0.2 mm
 Pad diameter: 4.6 ± 0.2 mm

Suggested Pad Layout (Top View):
 Pad width: 1.7 mm
 Pad spacing: 4.2 mm
 Pad diameter: 1.4 mm
 Pad diameter: 3.94 mm

Labels #1, #2, #3, #4 indicate the four connection pads.

Dimensions shown in millimeters.



For the most up to date specifications on each NEL product, log on to our website—www.nelfc.com