

NMP Series

SMD Crystal

Size, mm

10.5 x 4.0 x 3.8

Frequency Stability

±20 PPM

Temperature Range

-20°C to 70°C

Frequency Range

32.768 kHz (Std)

30.0 kHz - 130.0 kHz

(available)

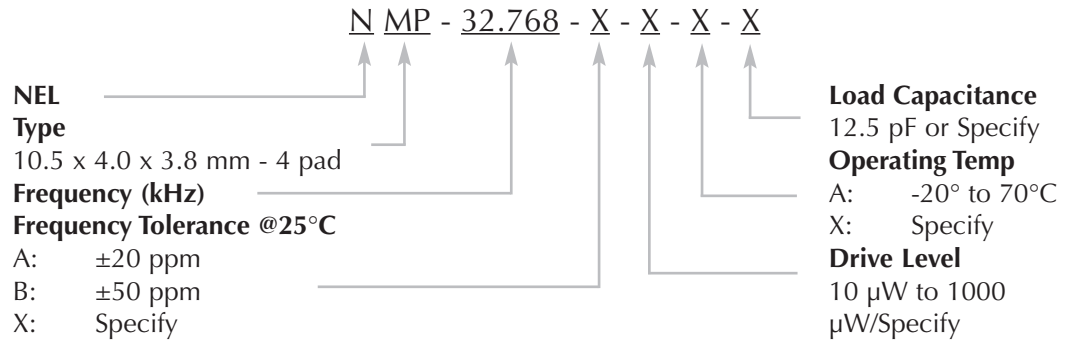
Features

- Meets NEL requirements for product reliability
- High performance/cost ratio
- Pick and place assembly
- Frequency range: 30.0 kHz to 130.0 kHz
- Suitable for microcomputer and real time clocks
- Excellent vibration and shock resistance
- Plastic package

SMD Crystal NMP Series

Frequency: 32.768 kHz (Std) 30.0 kHz to 130.0 kHz (available)

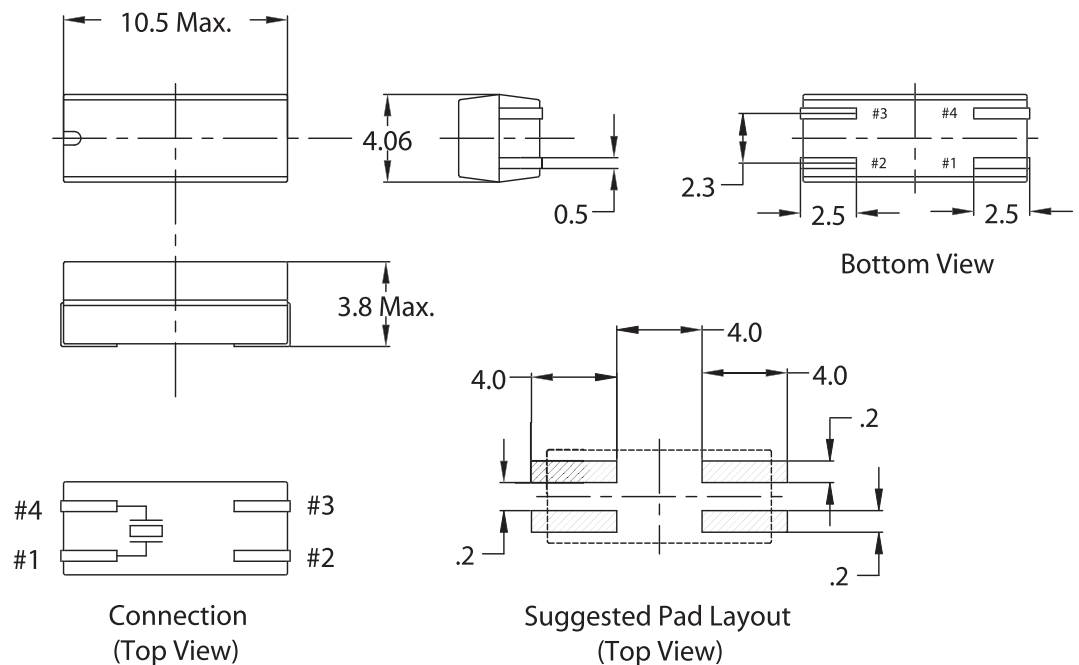
Creating a Part Number



Electrical Specifications

Frequency Range	32.768 kHz (Std) 30.000 kHz to 130.0 kHz (Available)
Frequency Tolerance at 25°C ±3°C	±20 ppm, ±50 ppm, or specify
Temperature Coefficient (Freq)	-0.04 X 10 ⁻⁶ /°C ² Max
Load Capacitance	12.5 pF (Std) or specify
Temp. Range	-30°C to 85°C
Storage Temp	-30°C to 85°C
Operating Temp	-20°C to 70°C or specify
Drive Level	Maximum: 1000 μW (Std) Recommended: 10 μW (Std)
Series Resistance	40 k ohms Max.
Motional Capacitance	2.0 fF (Std)
Shunt Capacitance	0.85 pf (Std)
Insulation Resistance	500 M Ω Min
Aging @ 25°C	±3 ppm/Year (Typ)
Soldering Condition	Twice at under 260°C within 10 sec./under 230°C with 3 minutes
Shock Resistance	±10 ppm Max

Drawing Specifications



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

Dimensions shown in millimeters.