Crystal Units

NDK Crystal Bridge to the Future

NX3225SA

For Automotive

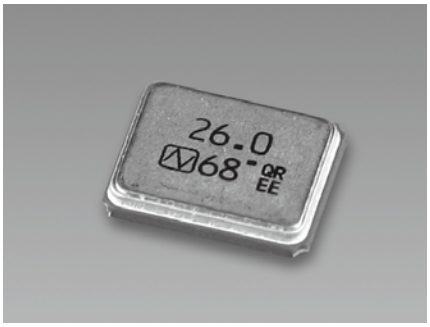
■ Features

A small surface-mount type crystal unit, ideal for automotive applications.

- ●With a well established reputation for reliability, this product is best suited for automotive equipment.
- ●Stable start-up characteristic even under extremely severe environmental conditions.
- ●Excellent environmental characteristics, including heat, vibration and shock resistance.
- ●Lead-free. Meets the requirements for re-flow profiling using lead-free solder.
- ●Conforms to AEC-Q200.

Pb Free

RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863

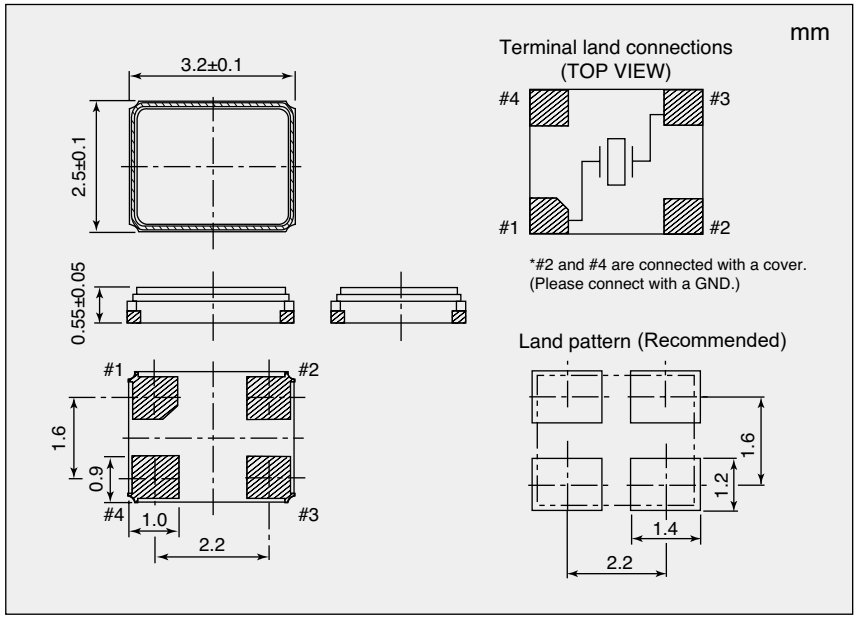


■ Specifications

Item \ Model	NX3225SA	
Standard	Standard	Optional
Nominal Frequency (MHz)	12 ≤ F ≤ 50	12 ≤ F ≤ 50
Overtone Order	Fundamental	Fundamental
Frequency Tolerance (25 ±3 °C)	±15 × 10^{-6}	±15 × 10^{-6}
Frequency versus Temperature Characteristics (with reference to +25 °C)	±50 × 10^{-6}	±50 × 10^{-6}
Operating Temperature Range (°C)	−40 to +125	−40 to +125
Storage Temperature Range (°C)	−40 to +125	−40 to +125
Equivalent Series Resistance	Refer to *1	Refer to *1
Level of Drive (μW)	10 (Max. 200)	10 (Max. 200)
Load Capacitance (pF)	8	6 to 32
Frequency Aging (+25 °C)	---	Max. ±3 × 10^{-6} / year *2
Specifications Number	STD-CRS-2	Refer to *3

Please specify the model name,frequency,and specification number when you order products.
For futher questions regarding specifications, please feel free to contact us.
*2 If you have any other requests, NDK will study it.
*3 Ordering information: Overtone Order Fundamental / 3rd Overtone, the Operating Temperature Range, Frequency versus Temperature Characteristics, Frequency Tolerance, and Load Capacitance.
Ex. Model, Frequency (38.400000MHz 6digits), S1:Fundamental or S3:3rd Overtone
- Operating Temperature Range (-40 to +125°C) - Frequency versus Temperature Characteristics (±50×10^{-6})
- Frequency Tolerance (±15×10^{-6}) - Load Capacitance (8pF)
NX3225SA
38.400000MHz
S1-40125-50-15-8

■ Dimensions



*1 Equivalent Series Resistance

Nominal Frequency (MHz)	Equivalent Series Resistance Max. (Ω)
12 ≤ F < 20	120
20 ≤ F ≤ 50	100

If you have any other requests,NDK will study it.