Crystal Units

Crystal Bridge to the Future

NX1612SA

For Automotive

■ Features

A small and thin surface-mount type crystal unit for automotive.

- ●Ultra compact and thin. (1.6 × 1.2 × 0.3 mm)
- ●Stable start-up characteristics 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

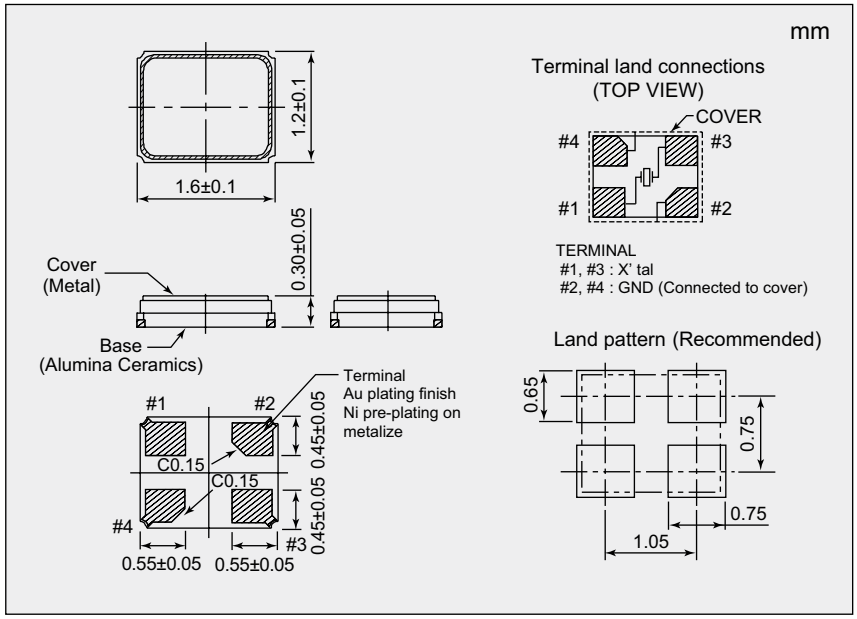
RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863

■ Specifications

Item \ Model	NX1612SA	
Standard	Standard	Optional
Nominal Frequency (MHz)	24 ≤ F ≤ 80	24 ≤ F ≤ 80
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} (Temp extended case, *1)
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 *2	Refer to *2
Level of Drive (μW)	10 (Max. 200)	10 (Max. 200)
Load Capacitance (pF)	8	6 to 18
Frequency Aging (+25°C)	---	Max. ±3 × 10^{-6}/year *1
Specifications Number	STD−CIC-1	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.
*1 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 (7pF)
NX1612SA
38.400000MHz
S1-40125-50-15-7

■ Dimensions



*2 Equivalent Series Resistance

Nominal Frequency (MHz)	Equivalent Series Resistance Max. (Ω)
24 ≤ F < 32	150
32 ≤ F < 38	100
38 ≤ F ≤ 80	80

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