

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	Optional
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 further 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)

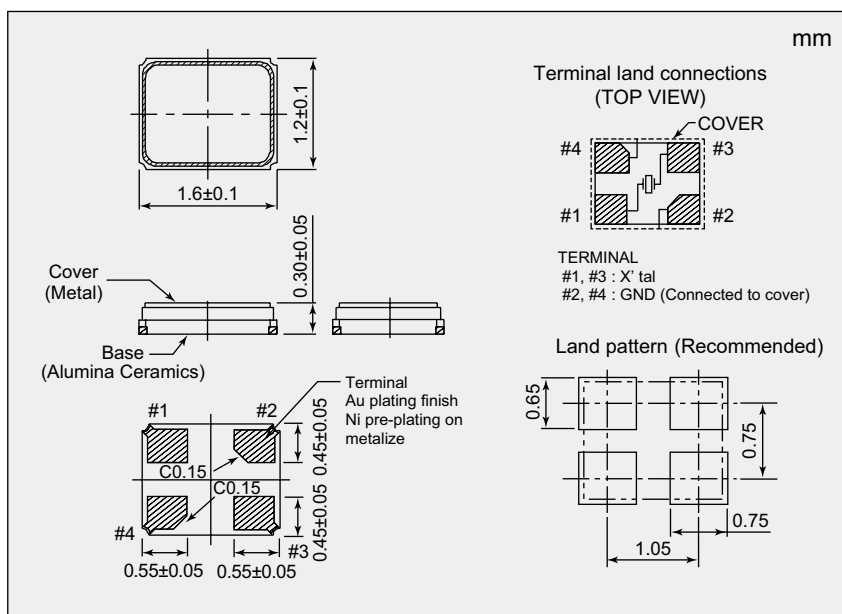
- Frequency Tolerance (±15×10⁻⁶) - Load Capacitance (7pF)

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

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