

## NX2016SA

For Automotive

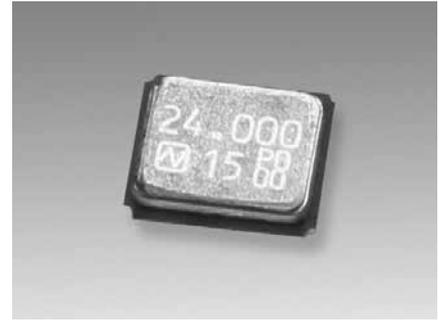
### ■ Features

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

- Ultra compact and thin. (2.0 × 1.6 × 0.45 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	NX2016SA	
		Standard	Optional
Standard		Standard	Optional
Nominal Frequency (MHz)		16 ≤ F ≤ 80	16 ≤ F ≤ 80
Overtone Order		Fundamental	Fundamental
Frequency Tolerance (25 ±3 °C)		±15 × 10 <sup>-6</sup>	±15 × 10 <sup>-6</sup>
Frequency versus Temperature Characteristics (with reference to +25 °C)		±50 × 10 <sup>-6</sup>	±50 × 10 <sup>-6</sup>
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 18
Frequency Aging (+25°C)		---	Max. ±3 × 10 <sup>-6</sup> / year *2
Specifications Number		STD-CZS-3	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.

\*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<sup>-6</sup>)

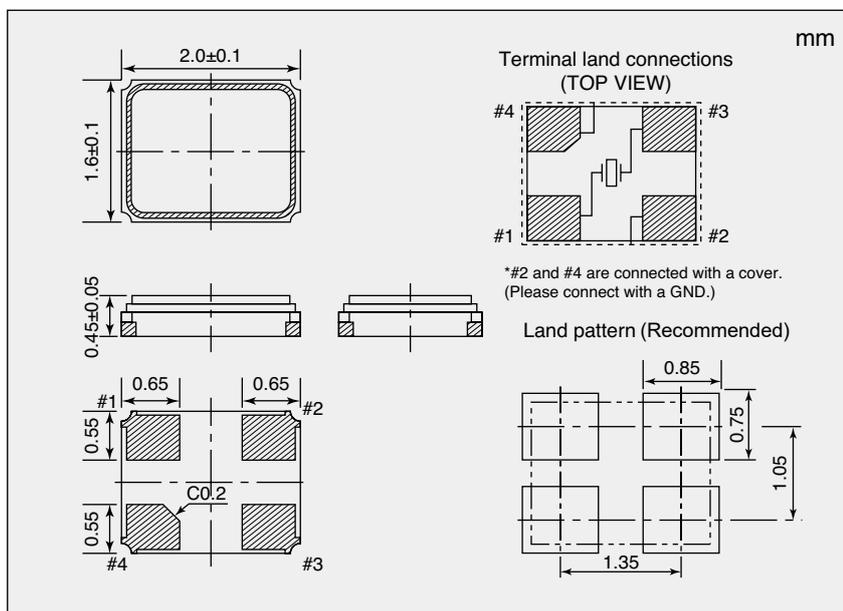
- Frequency Tolerance (±15×10<sup>-6</sup>) - Load Capacitance (7pF)

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38.400000MHz

S1-40125-50-15-7

### ■ Dimensions



\*1 Equivalent Series Resistance

Nominal Frequency (MHz)	Equivalent Series Resistance Max. (Ω)
16 ≤ F < 20	200
20 ≤ F < 24	100
24 ≤ F < 26	80
26 ≤ F < 40	60
40 ≤ F ≤ 80	50

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