

## NX5032GA

For Automotive

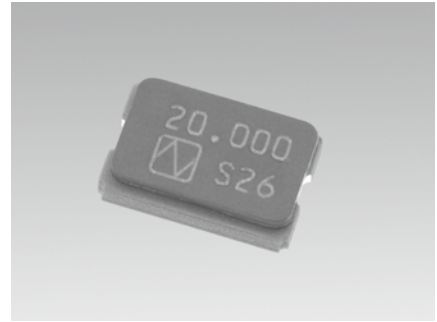
### ■ Features

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

Compatible with an engine control CPU clock delivering the high reliability that is particularly demanded, and compatible with low frequencies starting from 8 MHz.

- Compact and thin. (5.0 × 3.2 × 1.3 mm typ.)
- Stable start-up characteristic even under extremely severe environmental conditions.
- Excellent environmental characteristics, including heat, vibration and shock resistance.
- Meets the requirements for re-flow profiling using lead-free solder.
- Conforms to AEC-Q200.

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



### ■ Specifications

Item	Model	NX5032GA		
		Standard		Optional
Nominal Frequency (MHz)		8 ≤ F < 10.5	10.5 ≤ F ≤ 40	8 ≤ F ≤ 40
Overtone Order		Fundamental		Fundamental
Frequency Tolerance (25 ±3 °C)		±50 × 10 <sup>-6</sup>		±50 × 10 <sup>-6</sup>
Frequency versus Temperature Characteristics (with reference to +25 °C)		±150 × 10 <sup>-6</sup>		±150 × 10 <sup>-6</sup>
Operating Temperature Range (°C)		-40 to +150		-40 to +150
Storage Temperature Range (°C)		-40 to +150		-40 to +150
Equivalent Series Resistance		Refer to *1		Refer to *1
Level of Drive (µW)		10 (Max. 500)		10 (Max. 500)
Load Capacitance (pF)		8		6 to 32
Frequency Aging (+25 °C)		---		Max. ±10 × 10 <sup>-6</sup> / year *2
Specifications Number		STD-CSU-1	STD-CSU-2	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 (24.000000MHz 6digits), S1: Fundamental or S3 : 3rd overtone

– Operating Temperature Range (-40 to +150°C) – Frequency versus Temperature Characteristics (±150 × 10<sup>-6</sup>)

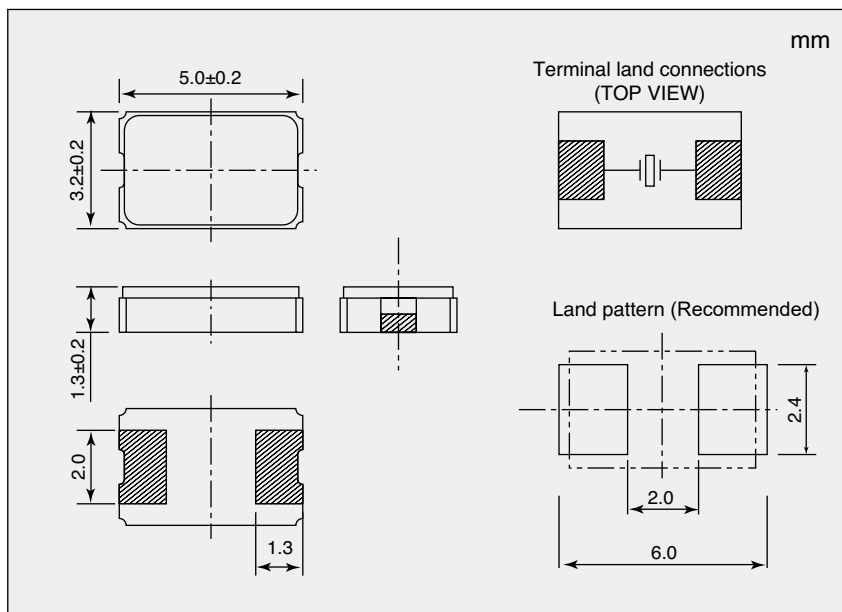
– Frequency Tolerance (±50 × 10<sup>-6</sup>) – Load Capacitance (10pF)

NX5032GA

24.000000MHz

S1-40150-150-50-10

### ■ Dimensions



\*1 Equivalent Series Resistance

Nominal Frequency (MHz)	Equivalent Series Resistance Max. (Ω)
8 ≤ F < 9.5	300
9.5 ≤ F < 10	220
10 ≤ F < 15	150
15 ≤ F < 20	120
20 ≤ F < 24	100
24 ≤ F < 30	80
30 ≤ F ≤ 40	50

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