## NX5032GA

**RoHS** Compliant

Directive 2011/65/EU irective (EU) 2015/86

## 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.
- Specifications

Item Model	NX5032GA		
Standard	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 × 10⁻6
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.

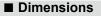
For further questions regarding specifications, please feel free to contact us.

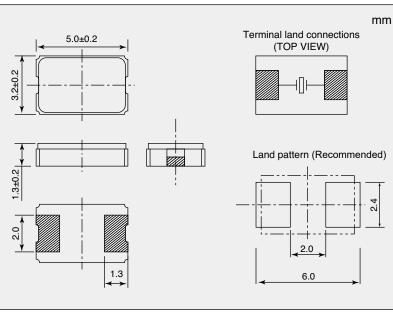
\*2 If you have any other requests, NDK will study it.

- \*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 × 10-6)
    - Frequency Tolerance (±50 × 10<sup>-6</sup>) Load Capacitance (10pF)
  - NX5032GA

24.000000MHz

S1-40150-150-50-10





*1 Equivalent Series Resistance			
Nominal Frequency (MHz)	Equivalent Series Resistance Max. $(\Omega)$		
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		
$30 \le F \le 40$	50		

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

## For Automotive

