

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 to 10.499	10.5 to 40
Overtone Order		Fundamental	Fundamental
Frequency Tolerance (25 ±3 °C)		±50 × 10 ⁻⁶	±50 × 10 ⁻⁶
Frequency versus Temperature Characteristics (with reference to +25 °C)		±150 × 10 ⁻⁶	±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 ⁻⁶ / year *2
Specifications Number		STD-CSU-1	STD-CSU-2

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)

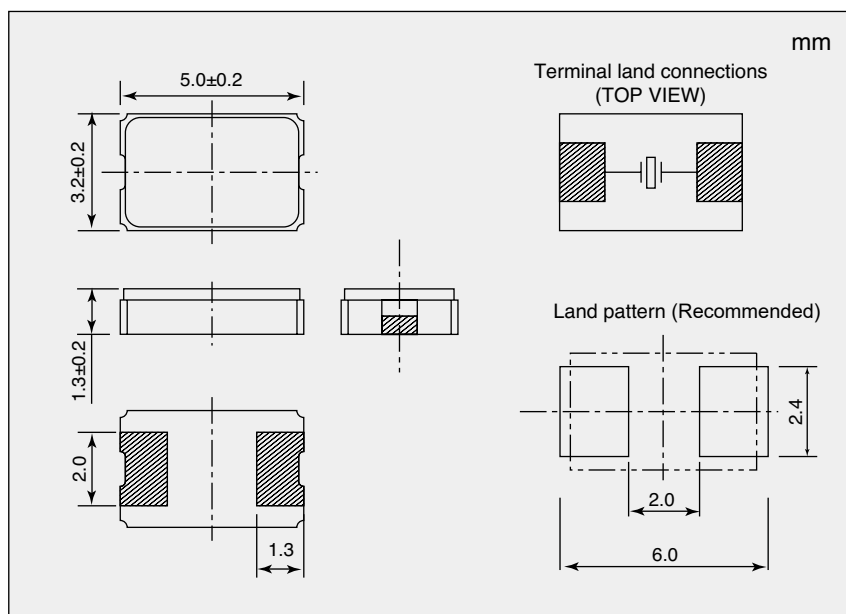
– Frequency Tolerance (±50 × 10⁻⁶) – Load Capacitance (10pF)

NX5032GA

24.000000MHz

S1-40150-150-50-10

■ Dimensions



*1 Equivalent Series Resistance

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

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