Quartz Crystal Units



For Automotive

Features

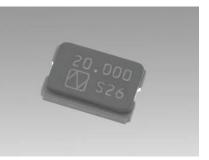
A small surface-mount type crystal unit, ideal for Automotive.

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 2002/95/EC

Specifications

Item	NX5032GA
Nominal frequency	8 to 40 MHz
Overtone order	Fundamental
Frequency tolerance (25 ±3 °C)	±50 × 10 ⁻⁶
Frequency versus temperature characteristics (with reference to +25 °C)	$\pm 150 \times 10^{-6}$
Operating temperature range	–40 to +150 °C
Storage temperature range	–40 to +150 °C
Equivalent series resistance	Refer to *1
Level of drive	10 μW (Max. 500 μW)
Load capacitance	8 pF

NX5032GA

The above specifications are standard for this NDK product.

Custom-made specifications such as load capacitance and temperature characteristics are also available. Please contact NDK sales with your enquiries.

How to Specify an Order

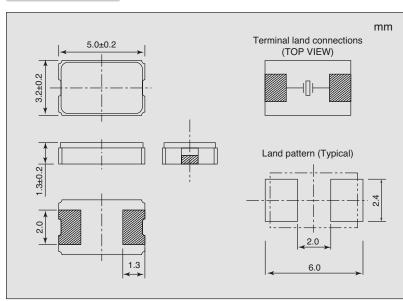
When ordering our products, specify them with an "Ordering Code" that consists of the following :

Model name - Frequency (Max : 9 digits) M - Number for specifying an order

Example NX5032GA-16.000M-STD-CSU-2

If you have any queries concerning our standard frequencies and numbers for specifying orders, please contact our sales representatives or visit our homepage (http://www.ndk.com/).

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