Crystal Units

NX3225GB

For Automotive

■ **Features**

A small surface-mount type crystal unit, ideal for an engine control CPU clock; delivering the high reliability that is particularly demanded by automotive.

- Compact and thin. (3.2 x 2.5 x 0.75 mm typ.)
- High resistance to solder cracking.
- Stable start-up characteristics even under extremely severe environmental conditions.
- Excellent environment-resistant performance, 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

■ **Specifications**

Item / Model	NX3225GB
Nominal Frequency	12 to 50 MHz
Overtone Order	Fundamental
Frequency Tolerance (25 ±3 °C)	$\pm 50 \times 10^{-6}$
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. 200 µW)
Load Capacitance	8 pF

*If you required 7.98 to 12MHz, please refer to NX3225GD.

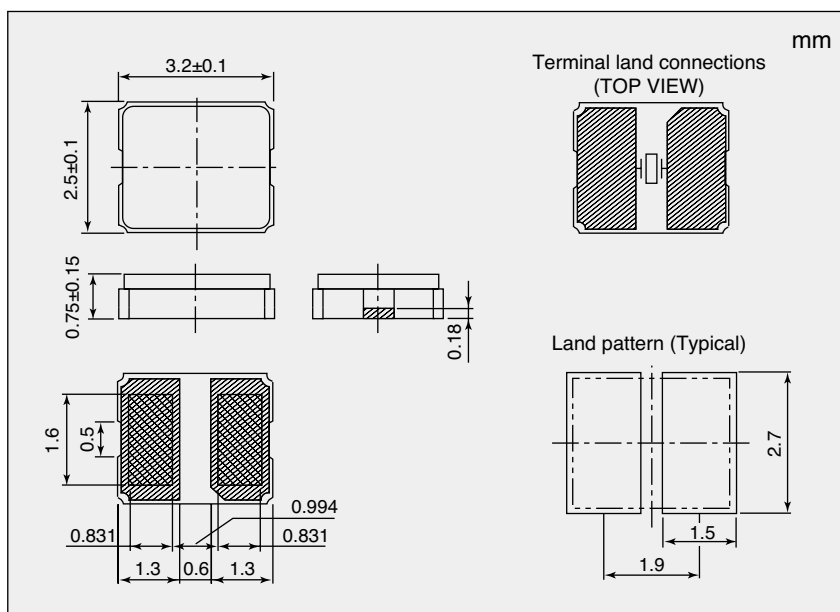The above specifications are standard for this NDK product.

■ **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 NX3225GB-12.000M-STD-CRA-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]
12 to 20	120
20 to 50	100