

# NX3225GD

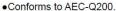
### For Automotive

#### **■** 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. Compatible with low frequency range starting from 7.98 MHz.

- •Compact and thin. (3.2 x 2.5 x 0.8mm)
- •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.
- RoHS Compliant
  Directive 2011/65/EU

Meets the requirements for re-flow profiling using lead-free solder.





### ■ Specifications

Item Model	NX3225GD	
Standard	Standard	Optional
Nominal Frequency (MHz)	7.98 ≤ F ≤ 12	7.98 ≤ F ≤ 12
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. 200)	10 (Max. 200)
Load Capacitance (pF)	8	6 to 32
Frequency Aging (+25 °C)		Max. ±10 × 10 <sup>-6</sup> / year *2
Specifications Number	STD-CRA-3	Refer to *3

Please specify the model name, frequency, and specification number when you order products.

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

Ex. Model, Frequency(10.000000MHz 6digits), S1:Fundamental or S3:3rd Overtone

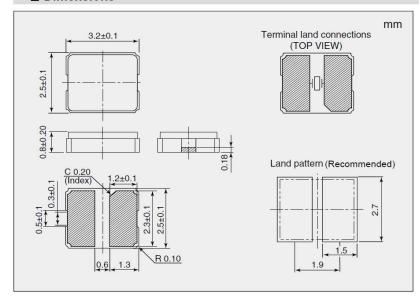
- Operating Temperature Range (-40 to +150°C) Frequency versus Temperature Characteristics (±150×10-6)
- Frequency Tolerance (±50×10-6) Load Capacitance (8pF)

NX3225GD

10.000000MHz

S1-40150-150-50-8

### **■** Dimensions



#### \*1 Equivalent Series Resistance

Nominal Frequency (MHz)	Equivalent Series Resistance Max. $(\Omega)$
7.98 ≤ F < 9.8	500
9.8 ≤ F ≤ 12	300

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

<sup>\*2</sup> If you have any other requests, NDK will study it.

<sup>\*3</sup> Ordering information: Overtone Order Fundamental / 3rd Overtone, the Operating Temperature Range, Frequency versus Temperature Characteristics, Frequency Tolerance, and Load Capacitance.

## Table 1

fnom (MHz)	NDK Spec Number	NDK Part Number	Prior NDK Part Number
8	STD-CRA-3	STDCRA3-8M	NX3225GD-8.000M-STD-CRA-3
10	STD-CRA-3	STDCRA3-10M	NX3225GD-10.000M-STD-CRA-3