Crystal Units

NDK Crystal Bridge to the Future

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.
- ●Meets the requirements for re-flow profiling using lead-free solder.
- ●Conforms to AEC-Q200.

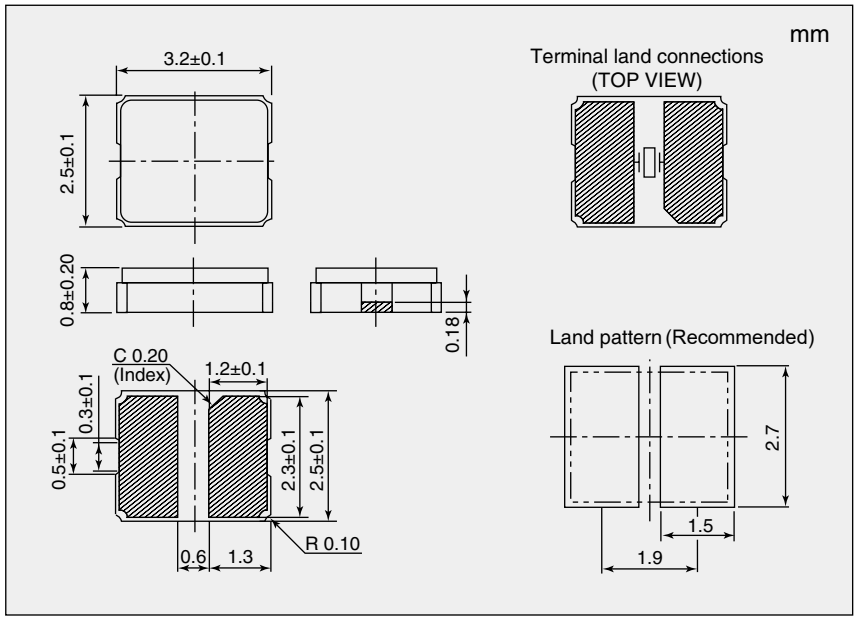
RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863

■ Specifications

Item \ Model	NX3225GD	
Standard	Standard	Optional
Nominal Frequency (MHz)	7.98 to 12	7.98 to 12
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. 200)	10 (Max. 200)
Load Capacitance (pF)	8	6 to 32
Frequency Aging (+25 °C)	---	Max. ±10 × 10^{-6} / 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.
*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(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. (Ω)
7.98 to 9.8	500
9.8 to 12	300

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