Crystal Units

NDK Crystal Bridge to the Future

NX5032SD

For Car Electronics

■ Features

A small surface-mount type crystal unit, ideal for the special requirements of car electronics, such as TPMS (Tire Pressure Monitoring System). The crystal unit is ideally suited for the clock signal generating source of the transmission unit in a tire wheel that is subject to strong centrifugal force.

- Stable frequency characteristics even with a powerful centrifugal force of 2,000G, as found in the transmission side of TMRS applications.
- Excellent environmental performance including heat, vibration, shock and heat cycle resistance.
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder.
- Conforms to AEC-Q200.



Pb Free

RoHS Compliant
Directive 2002/95/EC

■ Specifications

Item / Model	NX5032SD
Frequency Range	9.75 to 40MHz
Overtone Order	Fundamental
Frequency Tolerance (25 ±3°C)	±15 × 10^{-6}
Temperature Characteristics (with reference to +25°C)	±50 × 10^{-6}
Operating Temperature Range	−40 to +125°C
Equivalent Series Resistance	Refer to *1
Drive Level	10μW(Max:100μW)
Load Capacitance	12pF

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

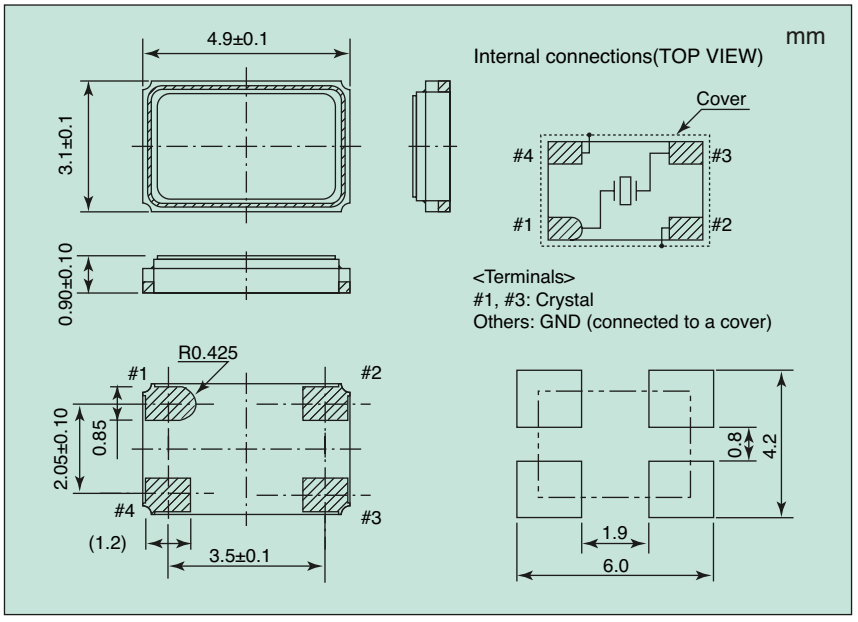
When ordering our products, specify them with an “Ordering Code” that consists of the following :

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

Example NX5032SD-9.750M-STD-CSY-1

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

Frequency (MHz) (Range)	Equivalent Series Resistance max.[Ω]
9.75 to 10	150
10 to 15	120
15 to 20	100
20 to 40	80