

# Crystal Units



## NX2520SA For OA / AV / Short-range Wireless

### ■ Features

A small and thin surface-mount type crystal unit, especially suited for small-sizing requirements.

Compatible with low frequencies starting from 16 MHz.

- Ultra compact and thin. (2.5 × 2.0 × 0.50 mm typ.)
- Excellent environmental characteristics, including heat and shock resistance.
- Excellent electrical performance, ideal for OA (office automation), AV (audiovisual), Bluetooth and Wireless LAN applications.
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder.



Pb Free

RoHS Compliant  
Directive 2002/95/EC

### ■ Specifications

Item	Model	NX2520SA
Frequency Range		16 to 80 MHz
Overtone Order		Fundamental
Frequency Tolerance (25 ±3 °C)		±15 × 10 <sup>-6</sup>
Temperature Characteristics (with reference to +25 °C)		±15 × 10 <sup>-6</sup>
Operating Temperature Range		-10 to +75 °C
Storage Temperature Range		-40 to +65 °C
Equivalent Series Resistance		Refer to *1
Drive Level		10 μW (Max. 200 μW)
Load Capacitance		8 pF

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.

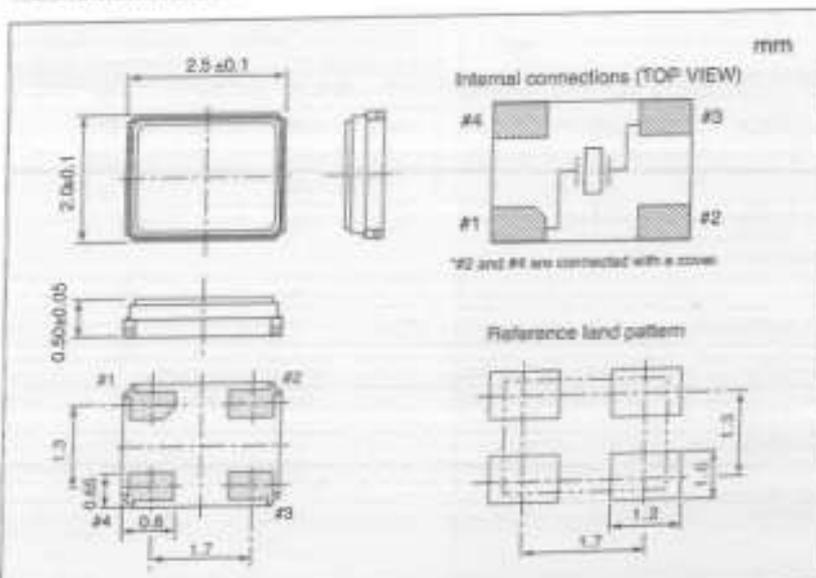
### ■ How to Specify an Order

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 NX2520SA-16.000M-STD-CSW-4

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 Range (MHz)	Equivalent Series Resistance max. (Ω)
16 to 20	60
20 to 30	60
30 to 35	50
35 to 80	40