

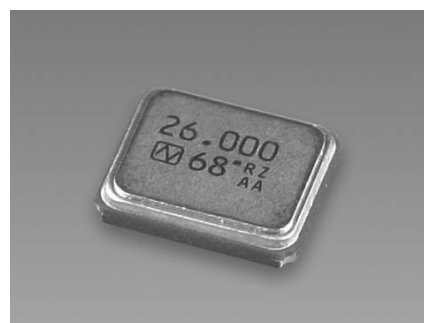
## NX2520SA

For Mobile Communications

### ■ Features

An ultra small surface-mount type crystal unit, suitable for mobile communications such as the base clock of mobile phone handsets.

- Ultra compact and thin. (2.5 × 2.0 × 0.5 mm typ.)
- Excellent environmental performance and heat resistance.
- 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 54 MHz           |
| Overtone Order   |       | Fundamental            |
| Frequency Tolerance (25 ±3 °C)                         |       | ±10 × 10 <sup>-6</sup> |
| Temperature Characteristics (with reference to +25 °C) |       | ±10 × 10 <sup>-6</sup> |
| Operating Temperature Range                            |       | -20 to +75 °C          |
| Storage Temperature Range                              |       | -40 to +85 °C          |
| Equivalent Series Resistance                           |       | Refer to *1            |
| Drive Level  |       | 10 μW (Max. 100 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.

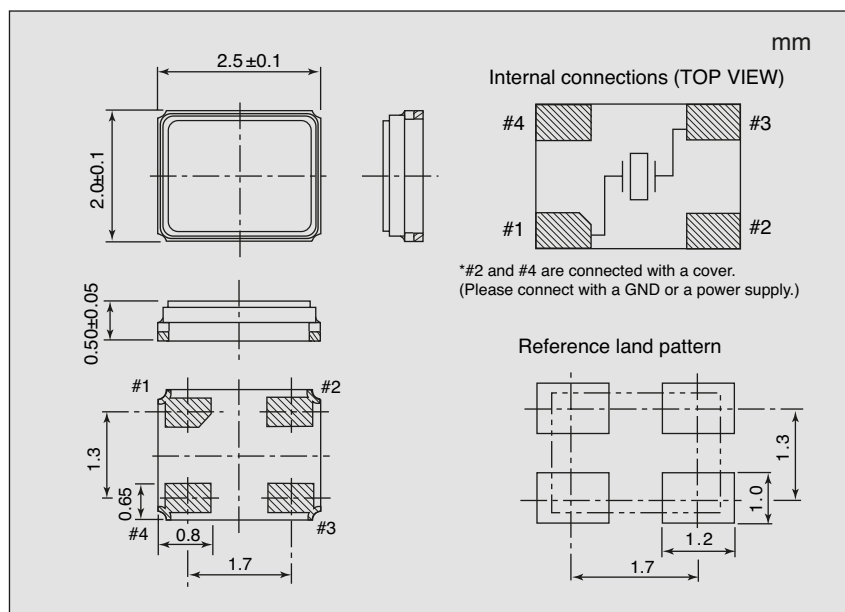
### ■ How to Specify an Order

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-26.000M-STD-CSX-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 Range (MHz) | Equivalent Series Resistance max. [Ω] |
|-----------------------|---------------------------------------|
| 16 to 20              | 80                                    |
| 20 to 30              | 60                                    |
| 30 to 35              | 50                                    |
| 35 to 54              | 40                                    |