

## NX2520SG

For Mobile Communications

### ■ Features

Crystal Unit with built-in Thermistor construction.

- Minimize circuit design space by combining crystal unit into one component.  
(Presently, Crystal unit and temperature sensor is mounted in one board separately.)
- Placing temperature sensor(Thermistor) close to Crystal blank in one airtight housing can detect more precise crystal blank temperature. Improvement on frequency temperature compensation compared to present Crystal unit.
- Single cavity housing which is ideal to module applications.



Pb  
Free

RoHS Compliant  
Directive 2011/65/EU

### ■ Specifications

| Item                                                                    | Model | NX2520SG                      |
|-------------------------------------------------------------------------|-------|-------------------------------|
| Nominal frequency                                                       |       | 19.2 to 54 MHz                |
| Overtone order                                                          |       | Fundamental                   |
| Frequency tolerance (30°C)                                              |       | $\pm 10 \times 10^{-6}$       |
| Frequency versus temperature characteristics (with reference to +30 °C) |       | $\pm 12 \times 10^{-6}$       |
| Operating temperature range                                             |       | -30 to +85 °C                 |
| Storage temperature range                                               |       | -40 to +85 °C                 |
| Equivalent series resistance                                            |       | Refer to *1                   |
| Level of drive                                                          |       | 10 $\mu$ W (Max. 100 $\mu$ W) |
| Load capacitance                                                        |       | 7 pF                          |

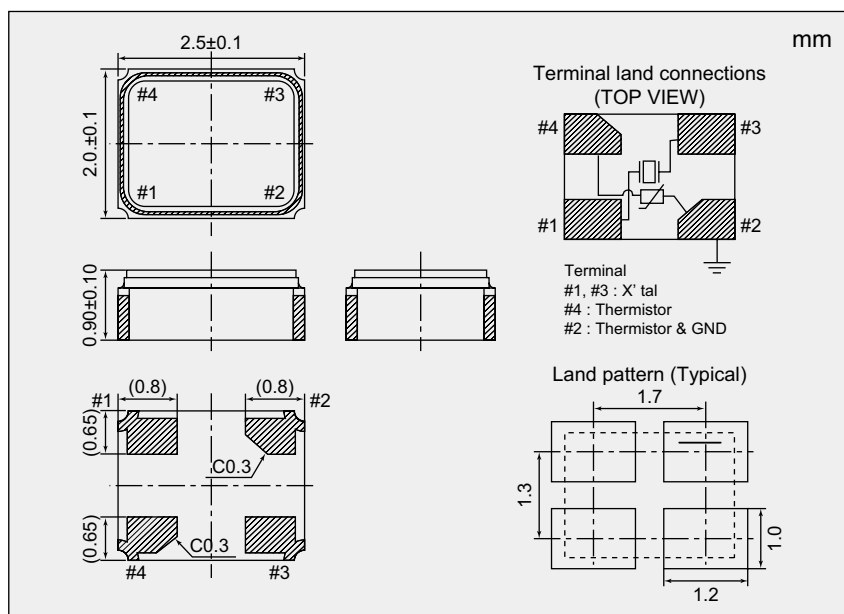
### ■ How to Specify an Order

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 NX2520SG-19.200M-STD-CTX-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



\*2 Equivalent Series Resistance

| Nominal frequency (MHz) | Equivalent Series Resistance max. [ $\Omega$ ] |
|-------------------------|------------------------------------------------|
| 19.2 to 20              | 70                                             |
| 20 to 40                | 50                                             |
| 40 to 54                | 40                                             |