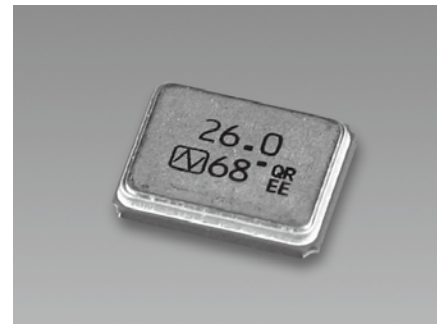


## NX3225SA For OA / AV / Short-range Wireless

### ■ Features

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

- Compact and thin. (3.2 × 2.5 × 0.55 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 2011/65/EU

### ■ Specifications

| Item  | Model | NX3225SA               |                        |
|---|-------|------------------------|------------------------|
| Nominal frequency   |       | 12 to 60 MHz           | 40 to 150 MHz          |
| Overtone order  |       | Fundamental            | 3rd overtone           |
| Frequency tolerance (25 ±3 °C)  |       | ±15 × 10 <sup>-6</sup> | ±20 × 10 <sup>-6</sup> |
| Frequency versus temperature characteristics (with reference to +25 °C) |       | ±15 × 10 <sup>-6</sup> |                        |
| Operating temperature range   |       | -10 to +75 °C          |                        |
| Storage temperature range   |       | -40 to +85 °C          |                        |
| Equivalent series resistance  |       | Refer to *1            |                        |
| Level of drive  |       | 10 μW (Max. 200 μW)    |                        |
| Load capacitance  |       | 8 pF                   | Series resonance       |

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.

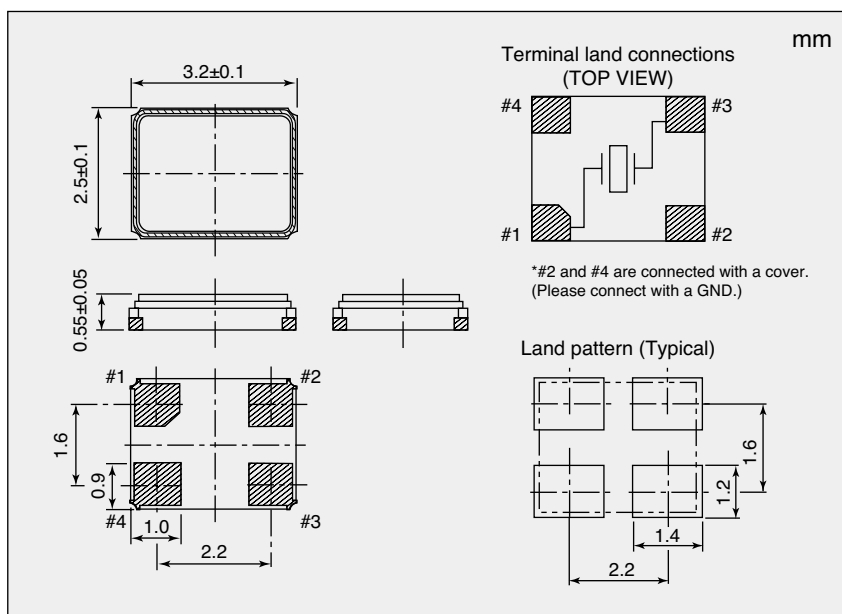
### ■ How to Specify an Order

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 NX3225SA-12.000M-STD-CSR-3

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

| Overtone Order | Nominal frequency (MHz) | Equivalent Series Resistance max. [Ω] |
|----------------|-------------------------|---------------------------------------|
| Fundamental    | 12 to 13                | 100                                   |
|                | 13 to 20                | 80                                    |
| 3rd overtone   | 20 to 60                | 50                                    |
|                | 40 to 100               | 140                                   |
|                | 100 to 150              | 100                                   |

# Mouser Electronics

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[NX3225SA-12MHZ-STD-CSR-3](#) [NX3225SA-25.000M-STD-CSR-3](#) [NX3225SA-26.000M-STD-CSR-3](#) [NX3225SA-27.12M-STD-CSR-3](#) [NX3225SA-30.000M-STD-CSR-3](#) [NX3225SA-20.000M-STD-CSR-3](#) [NX3225SA-13.56M-STD-CSR-3](#) [NX3225SA-24.000M-STD-CSR-3](#)