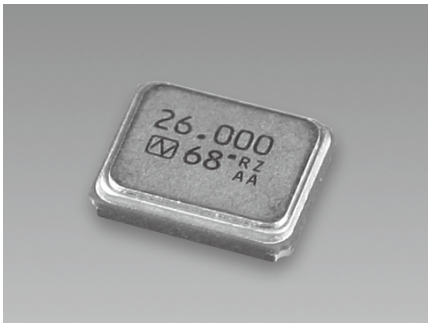
# Crystal Units

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

### ■ Features

Ideal for such as bluetooth, Wifi, smartphone and tablet pc.

- ●Compact and thin. (2.5 × 2.0 × 0.50 mm typ.)
- ●Excellent environmental characteristics, including heat and shock resistance.
- ●Lead-free. Meets the requirements for re-flow profiling using lead-free solder.



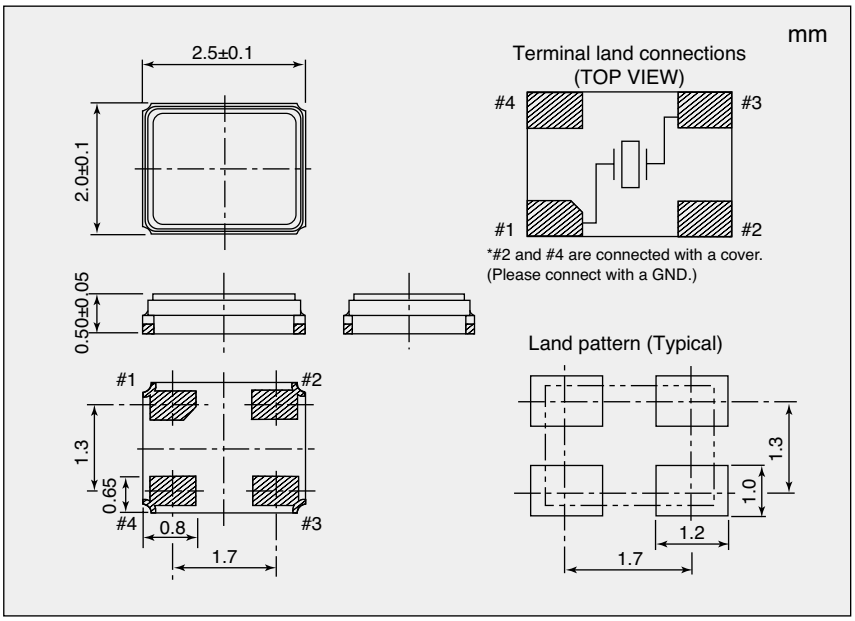

Pb Free

RoHS Compliant
Directive 2011/65/EU

### ■ Specifications

| Item \ Model | NX2520SA | |
|---|---|---|
| Nominal Frequency | 16 to 80 MHz | 16 to 54 MHz |
| Overtone Order | Fundamental | |
| Frequency Tolerance (25 ±3 °C) | ±15 × $10^{-6}$ | ±10 × $10^{-6}$ |
| Frequency versus Temperature Characteristics (with reference to +25 °C) | ±25 × $10^{-6}$ | ±10 × $10^{-6}$ |
| Operating Temperature Range | −40 to +85 °C | −20 to +75 °C |
| Storage Temperature Range | −40 to +85 °C | |
| Equivalent Series Resistance | Refer to *1 | Refer to *2 |
| Level of Drive | 10 μW (Max. 200 μW) | 10 μW (Max. 100 μW) |
| Load Capacitance | 8 pF | |
| Specifications Number | STD-CSW-5 | STD-CSX-1 |

### ■ Dimensions




*1 Equivalent Series Resistance

| Nominal frequency (MHz) | Equivalent Series Resistance max. [Ω] |
|---|---|
| 16 to 20 | 80 |
| 20 to 30 | 60 |
| 30 to 35 | 50 |
| 35 to 80 | 40 |

*2 Equivalent Series Resistance

| Nominal frequency (MHz) | Equivalent Series Resistance max. [Ω] |
|---|---|
| 16 to 20 | 80 |
| 20 to 30 | 60 |
| 30 to 35 | 50 |
| 35 to 54 | 40 |

Please specify the model name, frequency, and specification number when you order products.
For further questions regarding specifications, please feel free to contact us.

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