

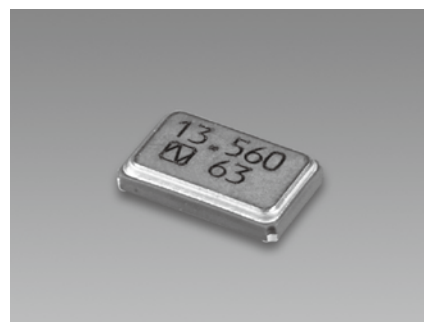
NX5032SD

For Automotive

■ Features

A small surface-mount type crystal unit, ideal for the special requirements of automotive, such as TPMS (Tire Pressure Monitoring System). The crystal unit is ideally suited for the clock signal generating source of the transmission unit in a tire wheel that is subject to strong centrifugal force.

- Stable frequency characteristics even with a powerful centrifugal force of 2,000 G, as found in the transmission side of TPMS applications.
- Excellent environmental performance including heat, vibration, shock and heat cycle resistance.
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder.
- Conforms to AEC-Q200.



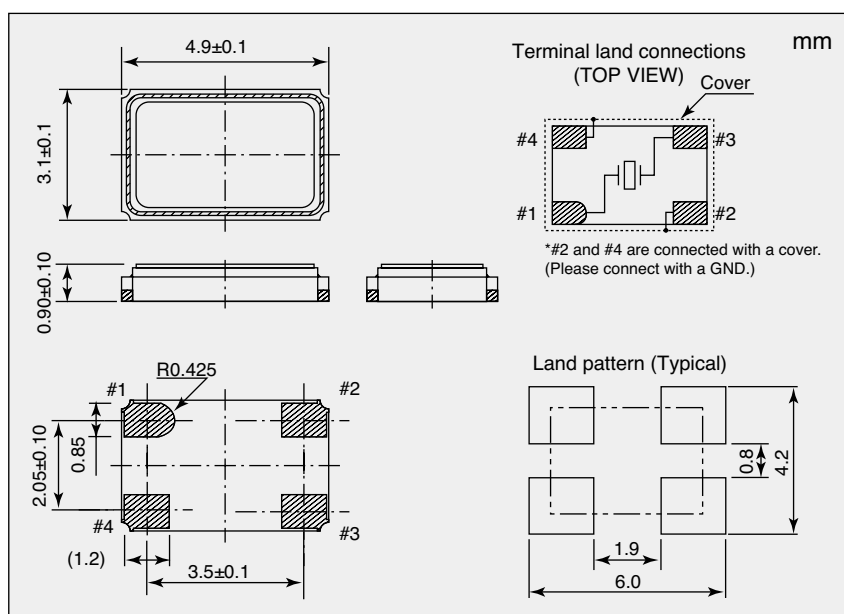
Pb
Free

RoHS Compliant
Directive 2011/65/EU

■ Specifications

| Item | Model | NX5032SD |
|---|-------|------------------------|
| Nominal Frequency | | 9.75 to 40 MHz |
| Overtone Order | | Fundamental |
| Frequency Tolerance (25 ±3 °C) | | ±15 × 10 ⁻⁶ |
| Frequency versus Temperature Characteristics (with reference to +25 °C) | | ±50 × 10 ⁻⁶ |
| Operating Temperature Range | | -40 to +125 °C |
| Storage Temperature Range | | -40 to +125 °C |
| Equivalent Series Resistance | | Refer to *1 |
| Level of Drive | | 10 μW (Max. 100 μW) |
| Load Capacitance | | 12 pF |
| Specifications Number | | STD-CSY-1 |

■ Dimensions



*1 Equivalent Series Resistance

| Nominal frequency (MHz) | Equivalent Series Resistance max. [Ω] |
|-------------------------|---------------------------------------|
| 9.75 to 10 | 150 |
| 10 to 15 | 120 |
| 15 to 20 | 100 |
| 20 to 40 | 80 |

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