

Crystal Bridge to the Future

# Crystal Oscillator NEW

## **NT2520SE**

### Main Application

Automotive communication(e.g., Automotive navigation or Telematics), Wireless module, and GPS / GNSS module, etc.

#### Features

- Supports ±0.5×10<sup>-6</sup> / -40 to +105°C
- A crystal oscillator with highly stable frequency / temperature characteristics best suited for GPS.
- Compact and light with a height, cubic volume, and weight of Max. 0.9 mm, 0.004 cm<sup>3</sup>, and 0.014 g, respectively.
- Supports low power supply voltage. (Supports DC +1.7 V to +3.3 V.)
- Low power consumption.
- A surface-mount crystal oscillator. (Reflow soldering is possible.)
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder.
- Conforms to AEC-Q100/200.
- Products with the AFC (Automatic Frequency Control) function is available.

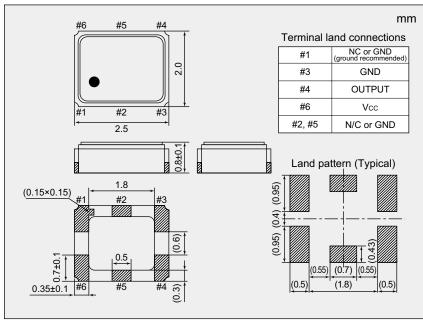
#### Specifications

Item Model	NT2520SE						
Nominal Frequency Range (MHz)	10 to 52						
Standard Frequency (MHz)	16.368	16.369	19.2	26	33.6	38.4	52
Supply Voltage [Vcc] (V)	+1.8						
Load Impedance	10 kΩ//10 pF						
Current Consumption (mA)	Max. 1.5 Max. 1.						Max. 2.0
Output Voltage	Min. 0.8 V(p-p) (DC Coupling *1)						
Frequency/Temperature Characteristics	Max. ±0.5×10 <sup>-6</sup>						
Operating Temperature Range (°C)	-40 to +105						
Storage Temperature Range (°C)	-40 to +105						
Frequency/Voltage Coefficient	Max. ±0.1×10 <sup>-6</sup> /+1.8 V±5 %						
Frequency/Load Coefficient	Max. ±0.1×10 <sup>-6</sup> /(10 kΩ//10 pF) ±10 %						
Long-term Frequency Stability	Max. ±1.0×10 <sup>-6</sup> /year						
Specification Number	NSC5073A	NSC5073A	NSC5073A	NSC5073B	NSC5073B	NSC5073C	NSC5073D

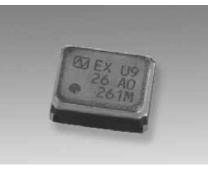
• Frequency setting conditions : Frequencies are set at normal temperatures (+25±2 °C)

\*1. A DC-cut capacitor is not embedded in this crystal oscillator. Connect a DC-cut capacitor (1,000 pF) to the line-out terminal of the oscillator.

#### Dimensions



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



Temperature Compensated Crystal Oscillator(TCXO) with wide temperature range for high-precision GPS



RoHS Compliant Directive 2011/65/EU