Crystal Oscillator



Model Name NT2520SB

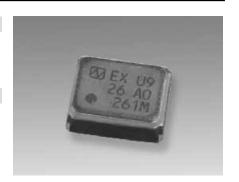
Temperature-Compensated Crystal Oscillator (TCXO) NT2520S Series (with high-precision GPS supported)

■ Main Application

For mobile terminals with high-precision GPS functions

■ Features

- A crystal oscillator with highly stable frequency / temperature characteristics best suited for GPS.
- Supports low power supply voltage. (Supports DC +1.7 V to +3.3 V.)
- Compact and light with a height, cubic volume, and weight of Max. 0.9 mm, 0.004 cm³, and 0.014 g, respectively.
- A surface-mount crystal oscillator. (Reflow soldering is possible.)
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder.
- Products with the AFC (Automatic Frequency Control) function or Enable/ Disable function is available.





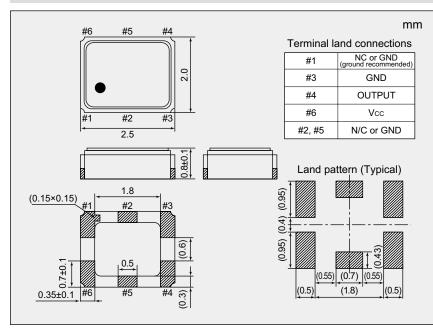


■ Specifications

Item Model	NT2520SB		
Nominal frequency (MHz)	13 to 52		
Standard frequency (MHz)	16.368, 16.369, 19.2 , 26, 27.456	38.4	52
Supply voltage [Vcc] (V)	+1.8, +2.8		
Load impedance	10 kΩ//10 pF		
Current consumption (mA)	Max. 1.5	Max. 1.7	Max. 2.0
Output voltage	Min. 0.8 V(p-p) (DC Coupling *1)		
Frequency/Temperature characteristics	Max. ±0.5×10-6		
Operating temperature range (°C)	-30 to +85		
Storage temperature range (°C)	-40 to +85		
Frequency/Voltage coefficient	Max. ±0.2×10 ⁻⁶ /Vcc±5 %		
Frequency/Load coefficient	Max. ±0.2×10-6/(10 kΩ//10 pF) ±10 %		
Long-term frequency stability	Max. ±1.0×10-6/year		

- Frequency setting conditions
 - 1. Frequencies are set at normal temperatures (+25±2 °C).
 - 2. Connect the #1 terminal of the oscillator to the ground that comes with the oscillator.
- If you require a product with a different frequency, power supply voltage, frequency control range, etc. to the standard specifications, please contact us with your enquiries.
- *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



■ List of Ordering Codes

[Supply voltage: +1.8V]

Frequency (MHz)	Ordering Code
16.368	NT2520SB-16.368M-NSA3467B
16.369	NT2520SB-16.369M-NSA3467B
19.2	NT2520SB-19.2M-NSA3467B
26	NT2520SB-26M-NSA3467C
27.546	NT2520SB-27.456M-NSA3467C
38.4	NT2520SB-38.4M-NSA3467D
52	NT2520SB-52M-NSA3467E

[Supply voltage : +2.8V]

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Frequency (MHz)	Ordering Code
16.368	NT2520SB-16.368M-NSA3466B
16.369	NT2520SB-16.369M-NSA3466B
19.2	NT2520SB-19.2M-NSA3466B
26	NT2520SB-26M-NSA3466C
27.546	NT2520SB-27.456M-NSA3466C
38.4	NT2520SB-38.4M-NSA3466D
52	NT2520SA-52M-NSA3466E

The above frequencies are NDK's standard frequencies. Frequencies other than the above are available. Feel free to contact our sales representatives.