

Crystal Oscillator

Model Name NT2520SB

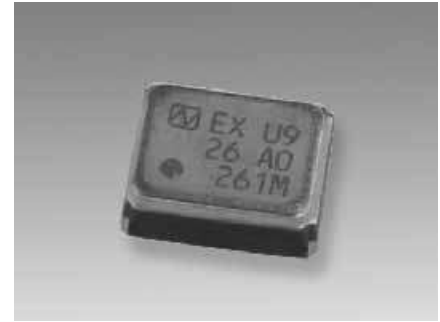
Temperature Compensated Crystal Oscillator (TCXO)
NT2520S Series

Main Application

For mobile phones, etc.

Features

- 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.
- 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.
- With an AFC (Automatic Frequency Control) function.



Pb Free

RoHS Compliant
Directive 2011/65/EU

Specifications

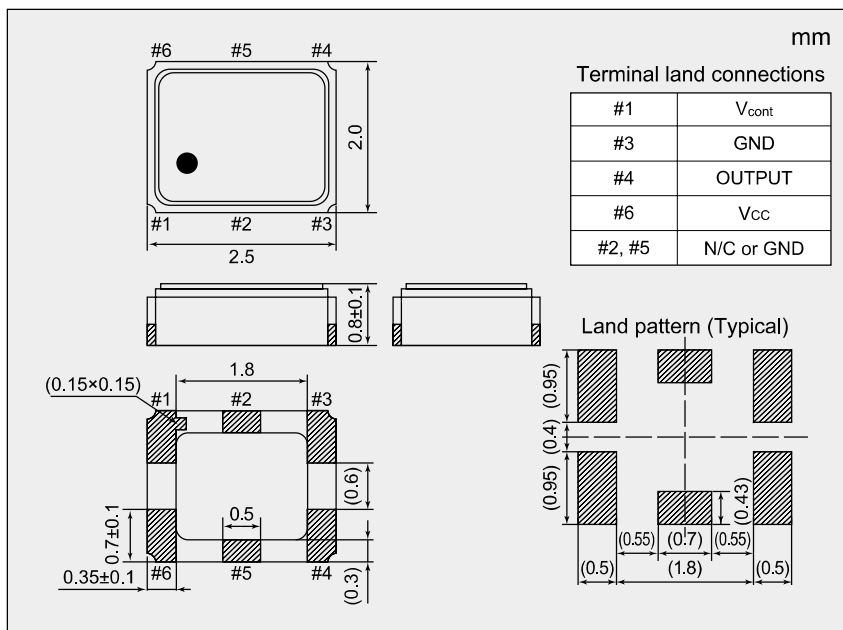
Item	Model	NT2520SB		
Nominal frequency (MHz)		13 to 52		
Standard frequency (MHz)		16.368, 16.369, 19.2, 26, 33.6	38.4	52
Supply voltage [V _{CC}] (V)		+1.8, +2.8		
Load impedance		10 kΩ/10 pF		
Current consumption (mA)		Max. 1.5	Max. 1.7	Max. 2.0
Output voltage		Min. 0.8 V(p-p) (DC Coupling *1)		
Frequency/Temperature characteristics		Max. ±2.0×10 ⁻⁶		
Operating temperature range (°C)		-30 to +85		
Storage temperature range (°C)		-40 to +85		
Frequency/Voltage coefficient		Max. ±0.2×10 ⁻⁶ /V _{CC} ±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 control range		±8.0 to ±13.0×10 ⁻⁶ /+0.9 V ± 0.8 V (Supply voltage : +1.8V) ±9.0 to ±15.0×10 ⁻⁶ /+1.4 V ± 1.0 V (Supply voltage : +2.8V)		

- Frequency setting conditions
1. Frequencies are set at normal temperatures (+25±2 °C).

- 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-NSA3559A
16.369	NT2520SB-16.369M-NSA3559A
19.2	NT2520SB-19.2M-NSA3559A
26	NT2520SB-26M-NSA3559B
33.6	NT2520SB-33.6M-NSA3559B
38.4	NT2520SB-38.4M-NSA3559C
52	NT2520SB-52M-NSA3559D

[Supply voltage : +2.8V]

Frequency (MHz)	Ordering Code
16.368	NT2520SB-16.368M-NSA3558A
16.369	NT2520SB-16.369M-NSA3558A
19.2	NT2520SB-19.2M-NSA3558A
26	NT2520SB-26M-NSA3558B
33.6	NT2520SB-33.6M-NSA3558B
38.4	NT2520SB-38.4M-NSA3558C
52	NT2520SB-52M-NSA3558D

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