Crystal Oscillator NEW



Model Name NT2520SA 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 +2.4±0.1 V to +3.2±0.1 V.)
- Ultra-compact and light with a height, cubic volume, and weight of 0.8 mm max., 0.0035 cm³, and 0.013 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.





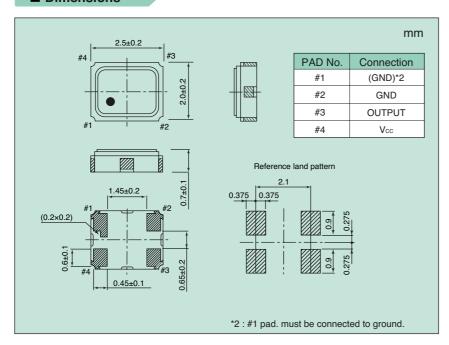


■ Specifications

Model	NT2520SA
Standard nominal frequency (MHz)	13 to 27.456MHz
Power supply voltage	+2.8V DC
Load	10kΩ//10pF
Consumption current	1.5mA max
Output level	0.8V(P-P) min (DC superimposition *1)
Frequency / temperature characteristic	±0.5×10 ⁻⁶ max
	−30 to +85°C
Power supply variation characteristics	±0.2×10 ⁻⁶ max/+2.8V±5%
Load variation characteristics	±0.2×10 ⁻⁶ max /(10kΩ//10pF)±10%
Aging	±1.0×10 ⁻⁶ max/year

- · Frequency setting conditions
 - 1. Frequencies are set at normal temperatures (+25±2°C).
 - 2. Frequencies are set with a printed board that has a ground pattern attached to the underside of an oscillator.
 - 3. 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 characteristic, etc. to the standard specifications, please contact us with your enquiries.
- Products with the AFC (Automatic Frequency Control) function are available. If you require such a product, please contact us.
- *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

Frequency	Ordering Code	
(MHz)		
13	NT2520SA-13M-NSA3410A	
16.368	NT2520SA-16.368M-NSA3410A	
16.369	NT2520SA-16.369M-NSA3410A	
16.8	NT2520SA-16.8M-NSA3410A	
19.2	NT2520SA-19.2M-NSA3410A	
24.5535	NT2520SA-24.5535M-NSA3410A	
26	NT2520SA-26M-NSA3410A	
27.456	NT2520SA-27.456M-NSA3410A	

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