

NT2520SD

Temperature Compensated Crystal Oscillator(TCXO)
with E/D function for high-precision GPS

■ Main Application

Mobile phone, Specified low power radio and Disaster prevention radio, etc.

■ 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.)
- Ultra-compact and light with a height, cubic volume, and weight of Max. 0.9 mm, 0.004 cm³, and 0.014 g, respectively.
- With an Enable/Disable (Stand-by) function.
- 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.



Pb Free

RoHS Compliant
Directive 2011/65/EU

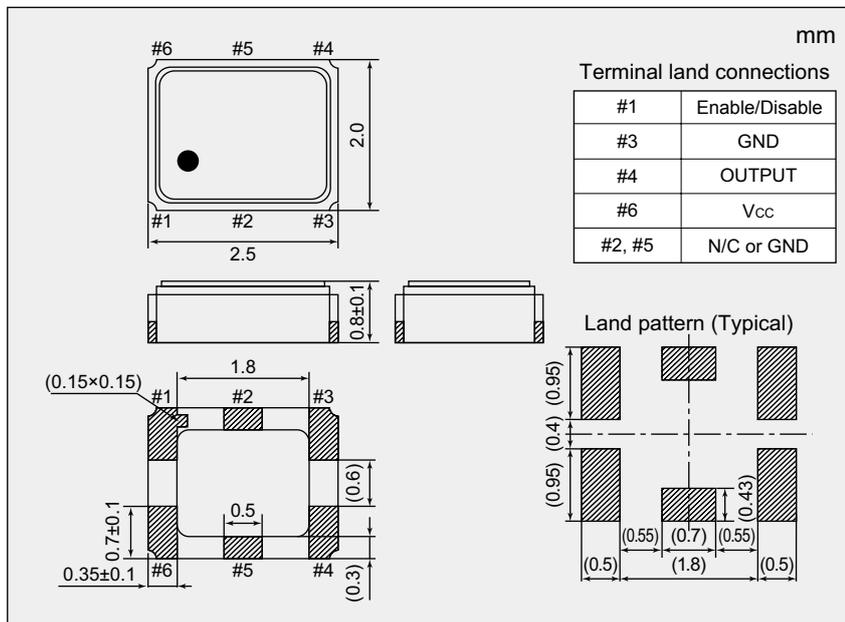
■ Specifications

Item	Model	NT2520SD							
Nominal Frequency (MHz)		10 to 52							
Standard Frequency (MHz)		16.368	16.369	19.2	26	33.6	38.4	52	
Supply Voltage [V _{CC}] (V)		+1.8							
Load Impedance		10 kΩ//10 pF							
Current Consumption	Enable (mA)	Max. 1.5				Max. 1.7			Max. 2.0
	Disable (μA)	Max. 2							
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. ±0.1×10 ⁻⁶ +1.8 V±5 %							
Frequency/Load Coefficient		Max. ±0.1×10 ⁻⁶ /(10 kΩ//10 pF) ±10 %							
Long-term Frequency Stability		Max. ±1.0×10 ⁻⁶ /year							
Enable/Disable Function		Enable : 80%V _{CC} to V _{CC} , Disable : 0V to 20%V _{CC}							
Specification Number		NSC5062A	NSC5062A	NSC5062A	NSC5062B	NSC5062B	NSC5062C	NSC5062D	

* 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.