

NT2016SB

Temperature Compensated Crystal Oscillator(TCXO)
with Enable/Disable (Stand-by) Function

■ Main Application

Smartphone / Mobile phone, Wireless module, and GPS / GNSS module, etc.

■ Features

- Supports low power supply voltage.
(Supports DC +1.7V to +3.3V. Standard specification : +1.8V)
- Ultra-compact and light with a height, cubic volume, and weight of Max. 0.8 mm, 0.0022 cm³, and 0.008 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.



Pb
Free

RoHS Compliant
Directive 2011/65/EU

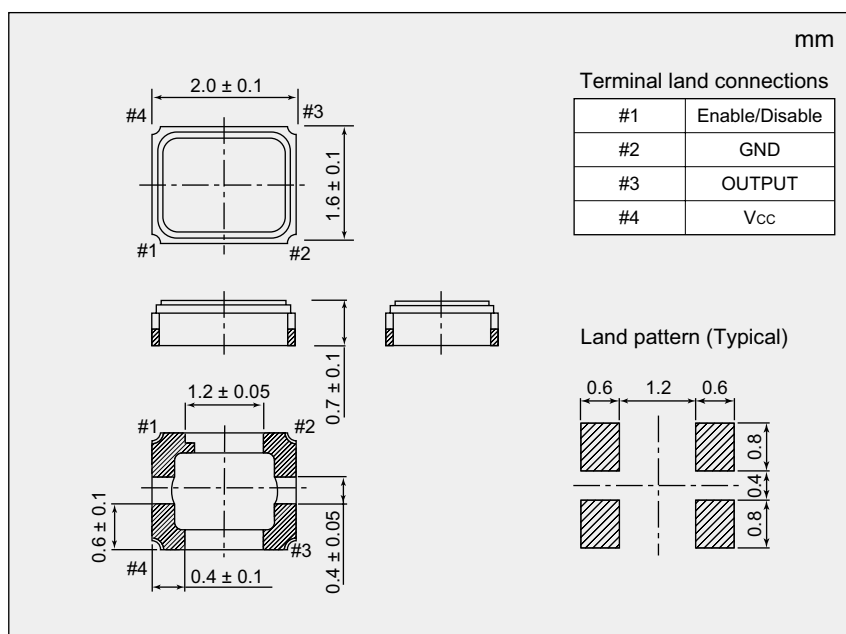
■ Specifications

Item	Model	NT2016SB					
Nominal Frequency (MHz)		10 to 52					
Standard Frequency (MHz)		16.368	16.369	19.2	26	33.6	38.4
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. $\pm 2.0 \times 10^{-6}$					
Operating Temperature Range (°C)		-30 to +85					
Storage Temperature Range (°C)		-40 to +85					
Frequency/Voltage Coefficient		Max. $\pm 0.1 \times 10^{-6}/+1.8 \text{ V} \pm 5 \%$					
Frequency/Load Coefficient		Max. $\pm 0.1 \times 10^{-6}/(10 \text{ k}\Omega//10 \text{ pF}) \pm 10 \%$					
Long-term Frequency Stability		Max. $\pm 1.0 \times 10^{-6}/\text{year}$					
Enable/Disable Function		Enable : 80%V _{CC} to V _{CC} , Disable : 0V to 20%V _{CC}					
Specification Number		NSA3560A	NSA3560A	NSA3560A	NSA3560B	NSA3560B	NSA3560C
							NSA3560D

* 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.