

Crystal Oscillator

NT2016SB

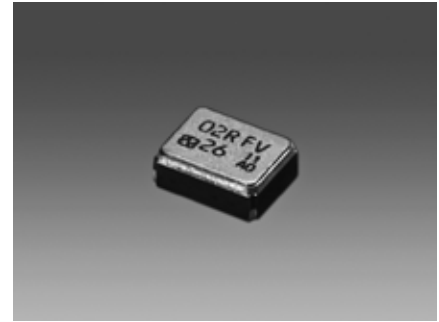
Low power supply voltage Temperature Compensated Crystal Oscillator(TCXO)
with E/D function for high-precision GPS

■ Main Application

Mobile phone and Smart watch, etc.

■ Features

- Supports low power supply voltage. (Supports DC +1.1V to +1.4V. Standard specification : +1.2V)
- A crystal oscillator with highly stable frequency / temperature characteristics best suited for GPS.
- 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 Enable / Disable(Stand-by) function.
- 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
Directive (EU) 2015/863

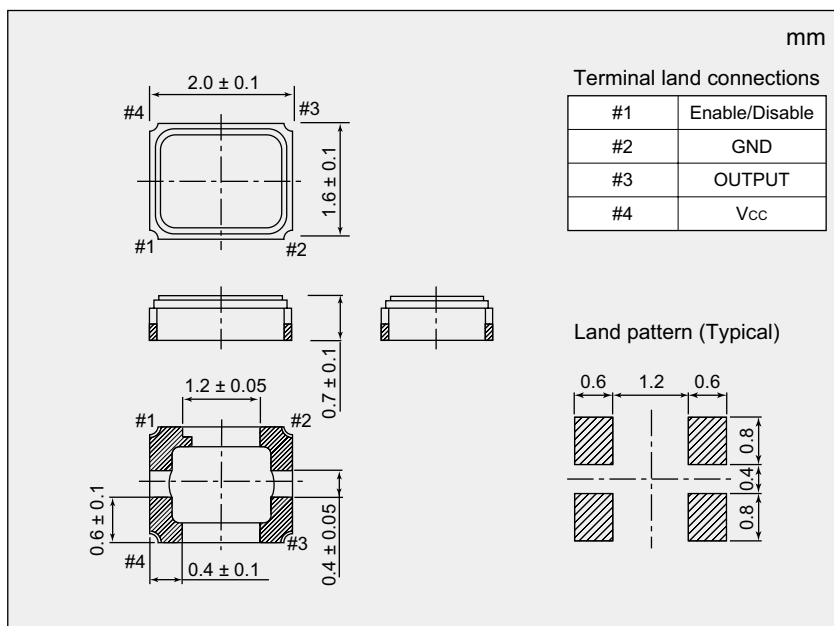
■ Specifications

Item	Model	NT2016SB		
Nominal Frequency (MHz)		26 to 40		
Standard Frequency (MHz)		26	33.6	38.4
Supply Voltage [V _{CC}] (V)		+1.2		
Load Impedance		10 kΩ//10 pF		
Current Consumption	Enable (mA)	Max. 1.7		Max. 2.2
	Disable (μA)	Max. 3		
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 /+1.2 V±0.1 V		
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		NSC5061B	NSC5061B	NSC5061C

* 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.