

Crystal Oscillator

NT2016SB

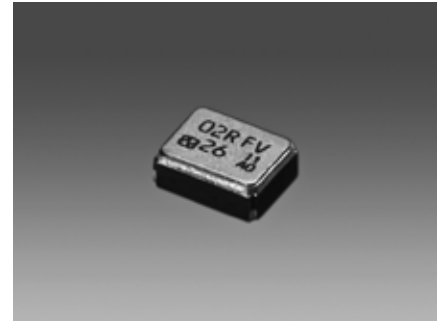
Low power supply voltage Temperature Compensated Crystal Oscillator(TCXO)
with E/D function for high-precision GPS

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

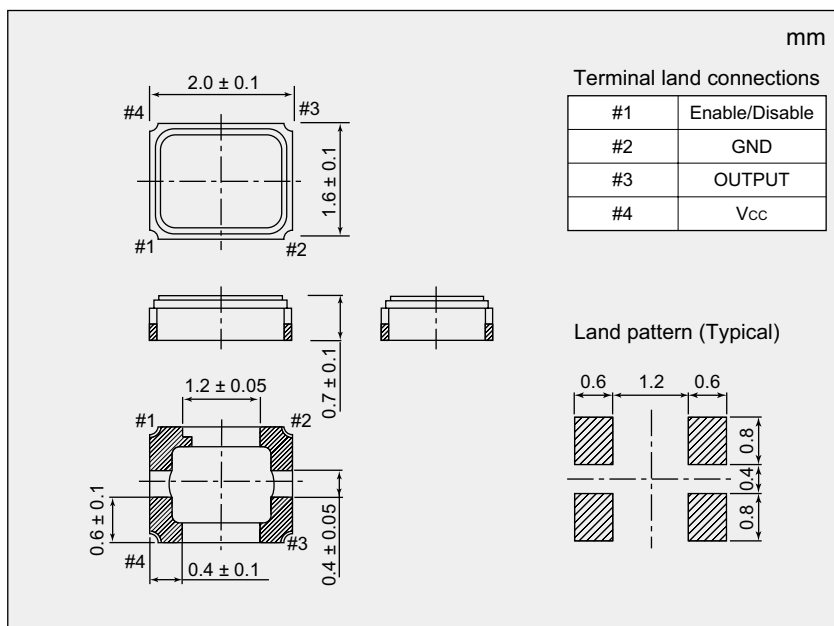
Specifications

| 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.