

Model Name NT2016SD

Equipped with the temperature sensor voltage output function and Enable / Disable(Stand-by) function (VC-TCXO) NT2016S Series

■ Main Application

For mobile phones, etc.

■ Features

- 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. 0.8 mm, 0.0022 cm³, and 0.008 g, respectively.
- A surface-mount crystal oscillator. (Reflow soldering is possible.)
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder.
- Temperature sensor voltage output function (0.95V typ. @+25°C, -8.7mV/°C typ.)
- With Enable / Disable(Stand-by) function.
- With an AFC (Automatic Frequency Control) function.(Option)



Pb
Free

RoHS Compliant
Directive 2011/65/EU

■ Specifications

Item	Model	NT2016SD		
Nominal frequency (MHz)		13 to 52		
Standard frequency (MHz)		26	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. 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 /+1.8 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		
Temperature sensor output voltage		0.95V typ. @25°C, -8.7mV/°C typ.		

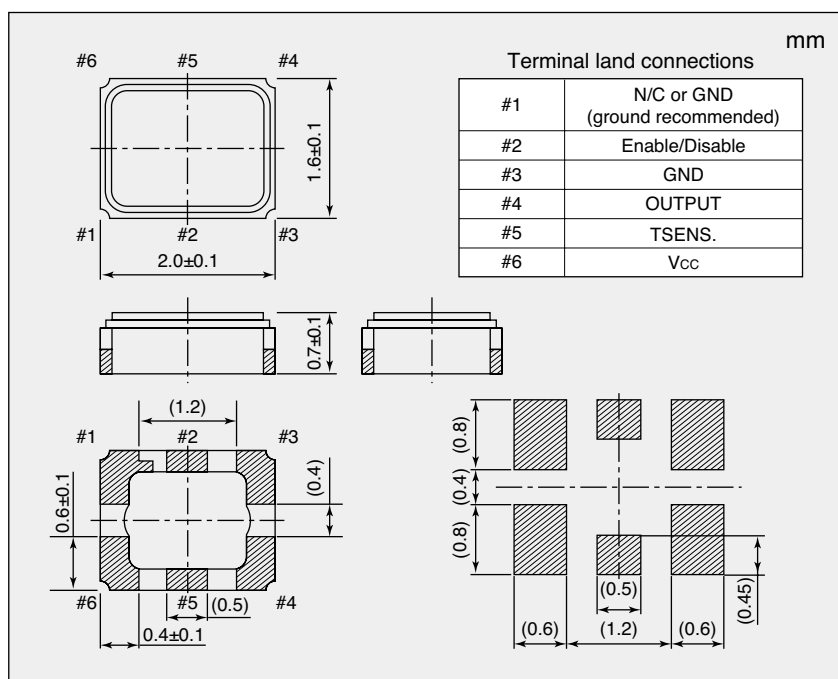
• Frequency setting conditions

1. Frequencies are set at normal temperatures (+25±2 °C).

• If you require a product with a different frequency, power supply voltage, frequency control range, etc. to the standard specifications, please contact us with your enquiries.

*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 (MHz)	Ordering Code
26	NT2016SD-26M-NSA3503B
38.4	NT2016SD-38.4M-NSA3503C
52	NT2016SD-52M-NSA3503D

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