

Model Name NT2016SC

Temperature-Compensated Crystal Oscillator (TCXO)
NT2016S Series(with two outputs of same frequency)

■ 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.
- With Enable / Disable function (This function can be used for both output1 and 2).
- It is possible to choose the AFC function instead of the Enable/Disable function for output 2.



Pb
Free

RoHS Compliant
Directive 2011/65/EU

■ Specifications

Item	Model	NT2016SC		
Nominal frequency range (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 (mA) (Two outputs)		Max. 2.0	Max. 2.2	Max. 2.4
Output voltage		Min. 0.8 V(p-p) (DC Coupling *1)		
Frequency/Temperature characteristics		Max. $\pm 2.0 \times 10^{-6}$ (Max. $\pm 0.5 \times 10^{-6}$ available)		
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. $\pm 1.0 \times 10^{-6}/\text{year}$		

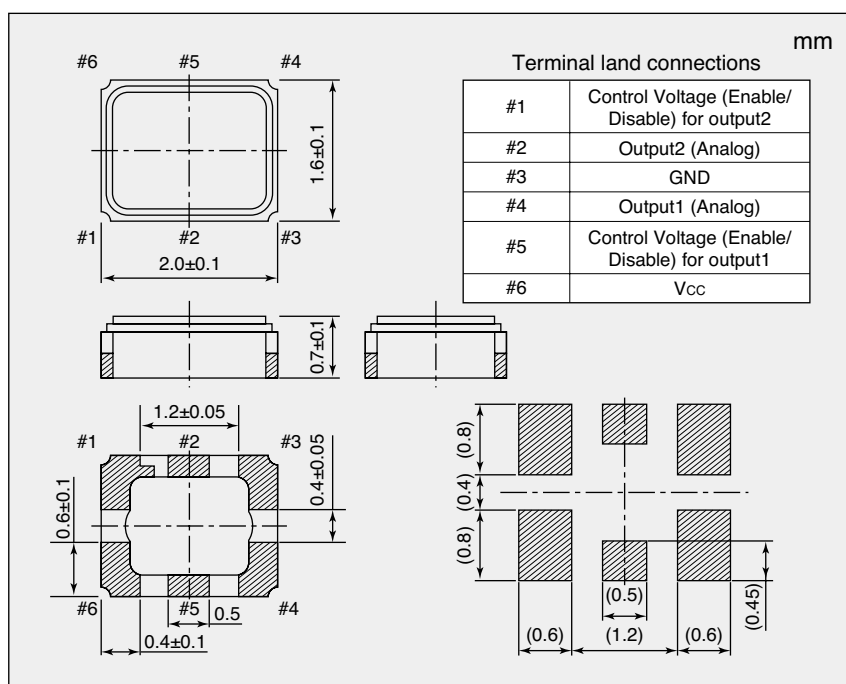
• Frequency setting conditions

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	NT2016SC-26M-NSA3502B
38.4	NT2016SC-38.4M-NSA3502C
52	NT2016SC-52M-NSA3502D

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