

# Crystal Oscillator

## NT1612AA

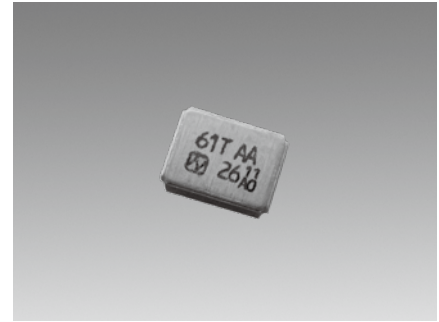
Temperature Compensated Crystal Oscillator  
with AFC function(VC-TCXO)

### Main Application

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

### Features

- Supports low power supply voltage.  
(Supports DC +1.68V to +3.63V. Standard specification : +1.8V)
- Ultra-compact and light with a height, cubic volume, and weight of Max. 0.55 mm, 0.0011 cm<sup>3</sup>, and 0.004g, respectively.
- A surface-mount crystal oscillator. (Reflow soldering is possible.)
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder.
- With an AFC (Automatic Frequency Control) function.



Pb Free

RoHS Compliant  
Directive 2011/65/EU  
Directive (EU) 2015/863

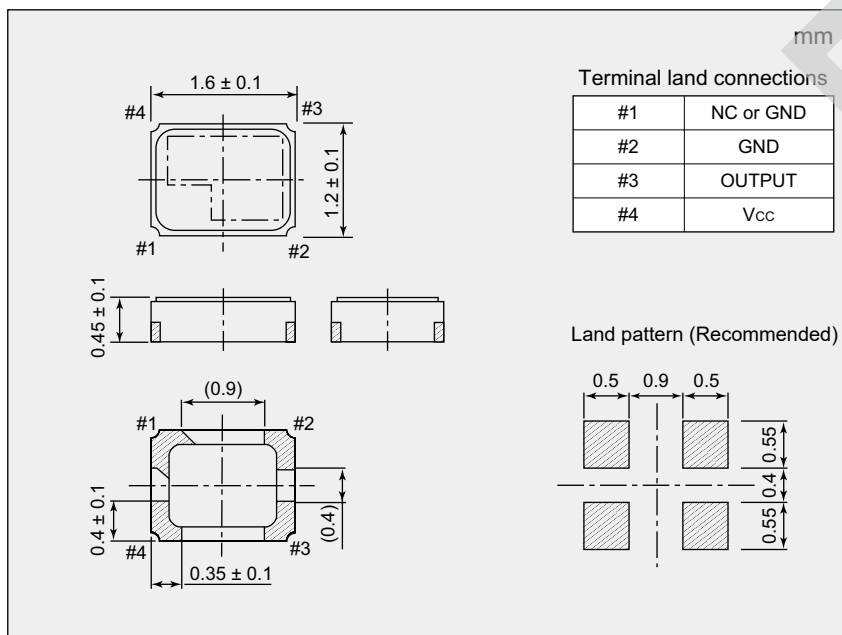
### Specifications

Item	Model	NT1612AA	
Nominal Frequency Range (MHz)		26 to 52	
Standard Frequency (MHz)		26	52
Supply Voltage [V <sub>cc</sub> ] (V)		+1.8	
Load Impedance		10 kΩ//10 pF	
Current Consumption (mA)		Max. 1.5	Max. 2.0
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. $\pm 1.0 \times 10^{-6} / \text{year}$	
Frequency Control Range		$\pm 8.0 \times 10^{-6}$ to $\pm 13.0 \times 10^{-6} / +0.9 \text{ V} \pm 0.8 \text{ V}$	
Specification Number		NSC5079A	NSC5079B

\* 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.