

Crystal Oscillator

NT1612AA

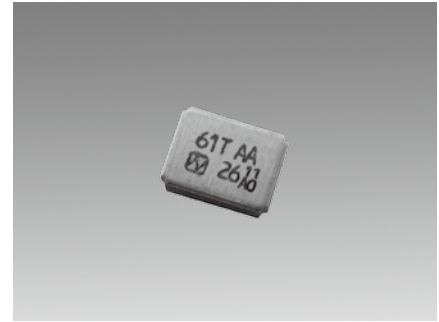
Temperature Compensated Crystal Oscillator
with AFC function(VC-TCXO)

Main Application

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

Features

- Supports low power supply voltage. (Supports DC +1.68 V to +3.63 V.)
- Ultra-compact and light with a height, cubic volume, and weight of Max. 0.55 mm, 0.0011 cm³, 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

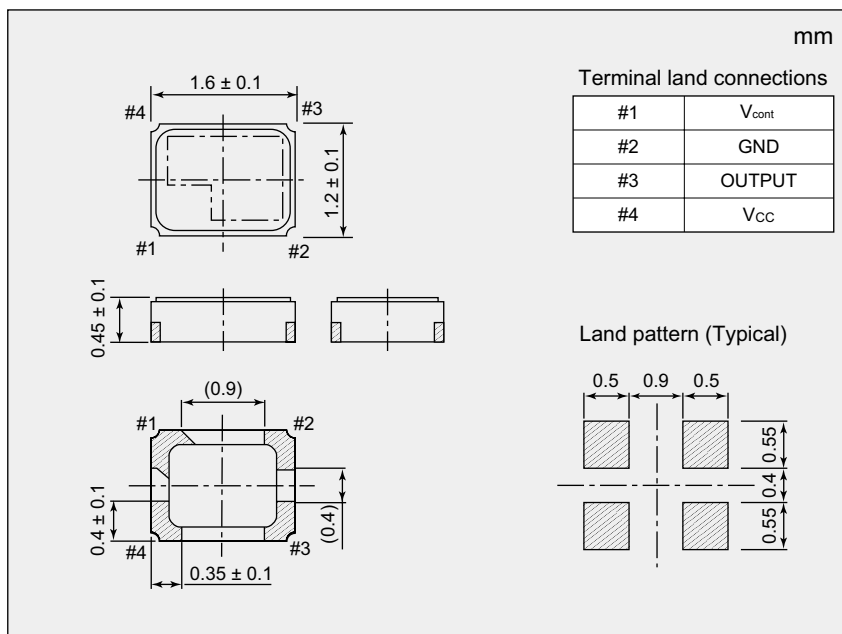
Specifications

| Item | Model | NT2016SA |
|---------------------------------------|----------|---|
| Nominal Frequency Range (MHz) | | 26 to 52 |
| Standard Frequency (MHz) | 26 | 52 |
| Supply Voltage [V _{cc}] (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. ±2.0×10 ⁻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 |
| Frequency Control Range | | ±8.0×10 ⁻⁶ to ±13.0×10 ⁻⁶ /+0.9 V±0.8 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.