

Crystal Oscillator

NT2016SA

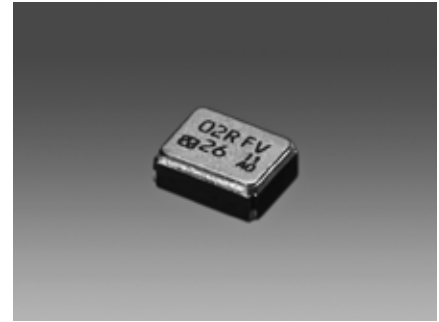
Temperature Compensated Crystal Oscillator
with AFC function(VC-TCXO)

Main Application

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

Features

- Supports low power supply voltage.
(Supports DC +1.7V to +3.3V. Standard specification : +1.8V)
- 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 an AFC (Automatic Frequency Control) function.
- Low power consumption.
- 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

Pb Free

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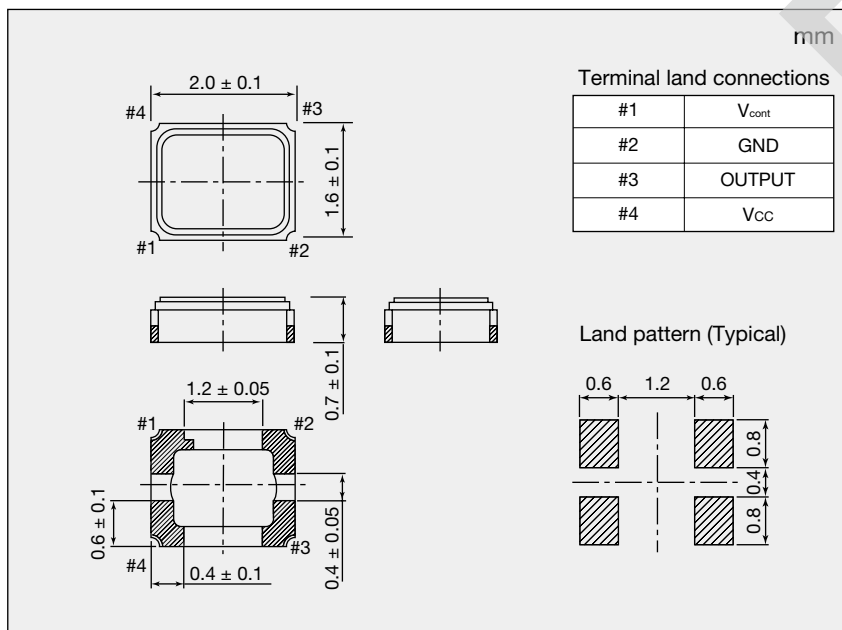
Item	Model							NT2016SA							
Nominal Frequency Range (MHz)								10 to 52							
Standard Frequency (MHz)	16.368	16.369	19.2	26	33.6	38.4	52								
Supply Voltage [V _{cc}] (V)								+1.8							
Load Impedance								10 kΩ//10 pF							
Current Consumption (mA)					Max. 1.5			Max. 1.7		Max. 2.0					
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. ±0.2×10 ⁻⁶ /+1.8 V±5 %							
Frequency/Load Coefficient								Max. ±0.2×10 ⁻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	NSA3508A	NSA3508A	NSA3508A	NSA3508B	NSA3508B	NSA3508B	NSA3508C	NSA3508D							

* Frequency setting conditions : Frequencies are set at normal temperatures (+25±2 °C).

* Products without the AFC (Automatic Frequency Control) function are available. If you require such a product, please contact us.

*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.