

Crystal Oscillator

NT1612AJA

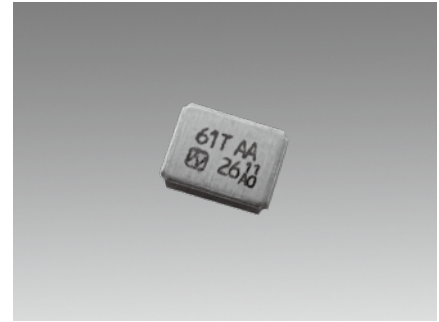
Temperature Compensated Crystal Oscillator(TCXO)
with ultra-low phase noise characteristics and Stand-by function for high-precision GPS

Main Application

Smartphone / Mobile phone, Wireless module, GPS / GNSS module, 5th Generation, Wi-Fi 6 (IEEE 802.11ax), and SONET / SDH, etc.

Features

- Crystal oscillator with ultra-low phase noise characteristics. (-168dBc/Hz @100kHz offset, 26MHz)
- 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 cm³, and 0.004 g, respectively.
- With Stand-by function.
- 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

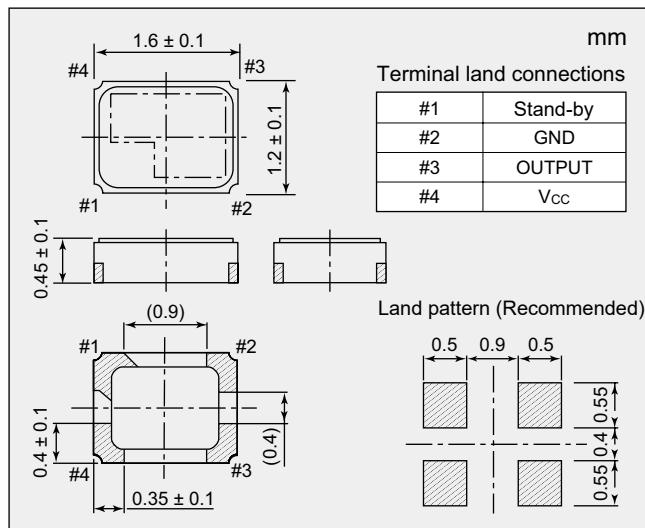
Specifications

Item	Model	NT1612AJA		
Nominal frequency Range (MHz)		24 to 104		
Standard Frequency (MHz)	26	52	76.8	
Supply Voltage [V _{CC}] (V)		+1.8		
Load Impedance		10 kΩ//10 pF		
Current Consumption	During Operation (mA)	Max. 2.5	Max. 3.0	Max. 5.0
	During Standby (μA)	Max. 4.0		Max. 5.0
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. ±0.2×10 ⁻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		Max. ±2.0×10 ⁻⁶ /year
Standby Function		Oscillation output ON : 80%V _{CC} to V _{CC} , High impedance : 0V to 20% V _{CC}		
Specification Number		NSC5228A	NSC5228B	NSC5228C

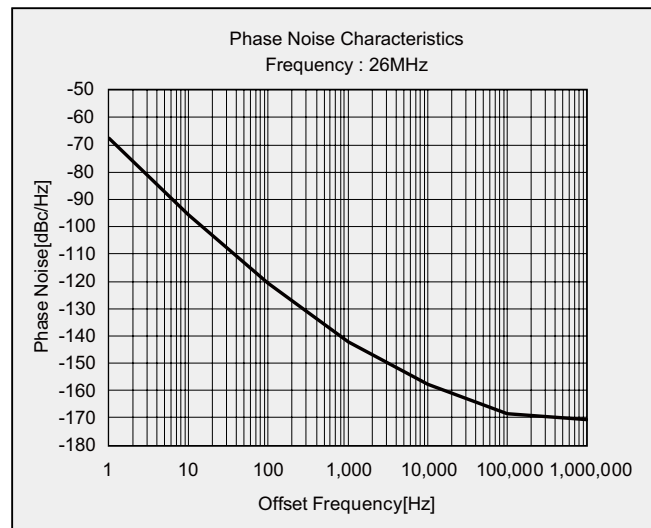
* Frequency setting conditions : Frequencies are set at normal temperatures (+25±2 °C).

*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



Phase noise characteristics



Please specify the model name, frequency, and specification number when you order products.
For further questions regarding specifications, please feel free to contact us.