Crystal Oscillator NEW

NDK Crystal Bridge to the Future

NT2520SD

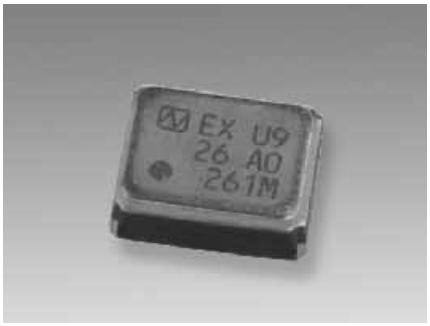
Temperature Compensated Crystal Oscillator(TCXO) with Enable/Disable (Stand-by) Function

■ Main Application

Mobile phone, Specified low power radio and Disaster prevention radio, 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. 0.9 mm, 0.004 cm^3, and 0.014 g, respectively.
- With an Enable/Disable (Stand-by) 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.
- Conforms to AEC-Q100/200.



Pb Free

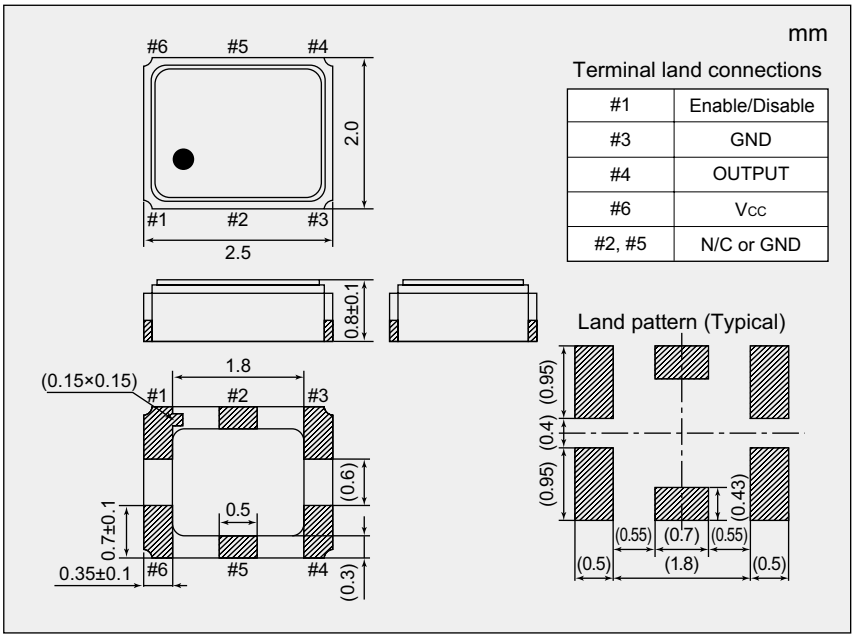
RoHS Compliant Directive 2011/65/EU

■ Specifications

Item \ Model		NT2520SD						
Nominal Frequency (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	Enable (mA)	Max. 1.5					Max. 1.7	Max. 2.0
	Disable (μA)	Max. 2						
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						
Enable/Disable Function		Enable : 80%V_{CC} to V_{CC}, Disable : 0V to 20%V_{CC}						
Specification Number		NSC5098A	NSC5098A	NSC5098A	NSC5098B	NSC5098B	NSC5098C	NSC5098D

• 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



Terminal land connections

#1	Enable/Disable
#3	GND
#4	OUTPUT
#6	V_{CC}
#2, #5	N/C or GND

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