Crystal Oscillator



Model Name NT3225SA

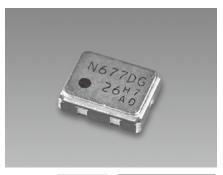
Temperature-Compensated Crystal Oscillator (TCXO) NT3225S Series

■ Main Application

For mobile phones, etc.

■ Features

- Supports low power supply voltage. (Supports DC +2.4 V±0.1 V to +3.4 V±5 %.)
- Ultra-compact and light with a height, cubic volume, and weight of Max. 1.0 mm, 0.007 cm³, and 0.024 g, respectively.
- 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.





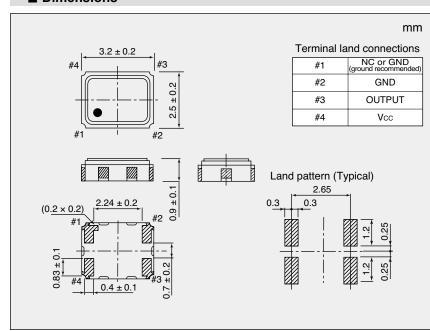


■ Specifications

Item Model	NT3225SA
Nominal frequency range (MHz)	10 to 26
Supply voltage [Vcc] (V)	+3.0
Load impedance	10 kΩ//10 pF
Current consumption (mA)	Max. 1.5
Output voltage	Min. 0.8 V(p-p) (DC Coupling *1)
Frequency/Temperature characteristics	Max. ±2.5×10 ⁻⁶
Operating temperature range (°C)	−30 to +75
Storage temperature range (°C)	-40 to +85
Frequency/Voltage coefficient	Max. ±0.3×10 ⁻⁶ /+3.0 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 setting conditions
 - 1. Frequencies are set at normal temperatures (+25±2 °C).
 - 2. Frequencies are set with a printed board that has a ground pattern attached to the underside of an oscillator.
- If you require a product with a different frequency, power supply voltage, frequency control range, etc. to the standard specifications, please contact us with your enquiries.
- *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



■ List of Ordering Codes

Frequency (MHz)	Ordering Code
10	NT3225SA-10M-NSA0322T
12.8	NT3225SA-12.8M-NSA0322T
13	NT3225SA-13M-NSA0322T
14.4	NT3225SA-14.4M-NSA0322A
16	NT3225SA-16M-NSA0322T
16.0073	NT3225SA-16.0073M-NSA0322T
16.3676	NT3225SA-16.3676M-NSA0322T
16.37	NT3225SA-16.37M-NSA0322T
19.2	NT3225SA-19.2M-NSA0322T
19.68	NT3225SA-19.68M-NSA0322T
20	NT3225SA-20M-NSA0322T
21.25	NT3225SA-21.25M-NSA0322T
26	NT3225SA-26M-NSA0322T

The above frequencies are NDK's standard frequencies. Frequencies other than the above are available. Feel free to contact our sales representatives.