Crystal Oscillator



Model Name NH25M22WB Oven-Controlled Crystal Oscillator (OCXO) for Fixed Communication Equipment

■ Main Application

- Mobile communication
- Measuring instrument
- Exchanger

- base station
- Synthesizer
- High-end router

■ Features

- Compact, with a low height.
- Excellent aging characteristics.
- A surface-mount (SMD) package.
- Reflow soldering is possible.
- Excellent phase noise characteristics.





■ Specifications

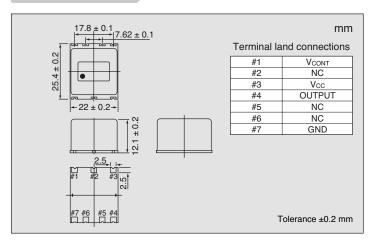
Item Measurement condition Model			NH25M22WB
No	minal frequency (MHz)		19.2
Supply voltage [V _{CC}] (V)			+3.3 ±5 %
Po	ower concumption (MA)	at start	Max. 2.7
Power consumption (W)		when stable (+25 °C)	Max. 1.4
Output voltage			HCMOS level (Vol Max. 0.4 V, Voh Min. 2.4 V)
Symmetry (%)		at 1/2 Vcc	40 to 60
Load impedance (pF)			15
Operating temperature range (°C)			-10 to +70
Frequency tolerance	Stabilization time	Stabilization Time (Frequency Stability) within ±200 ×10 ⁻⁹ after power on at +25°C, based on frequency after 60minutes operation.	5 minutes
tole	Long-term frequency stability	Based on frequency after 30 days operation	Max. ±2×10 ⁻⁹ /day
ncy		Based on frequency after 30 days operation	Max. ±100×10 ⁻⁹ /year
dne	Frequency/Temperature characteristics	−10 °C to +70 °C	Max. ±20×10 ⁻⁹
Fre	Frequency/Voltage coefficient	Vcc +3.3 V ±5 %	Max. ±5×10 ⁻⁹
Frequency control range +1.4 ±1.4 V		+1.4 ±1.4 V	Min. ±1×10 ⁻⁶
Frequency change polarity			Positive

■ Reference Value

	Offset frequency	dBc/Hz
	1 Hz	Max70
Dhace raise (at 10.0 MHz)	10 Hz	Max100
Phase noise (at 19.2 MHz)	100 Hz	Max120
	1 kHz	Max135
	10 kHz	Max. –135

The value of phase noise changes when the frequency changes.

■ Dimensions



■ List of Options

Power supply voltage [Vcc] (V)	+5	
Nominal frequency range (MHz)	10 to 20	

For details of options, please feel free to contact our sales representatives.

■ List of Ordering Codes

Frequency (MHz)	Ordering Code
19.2	NH25M22WB-19.2M-NSA3420A

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