Crystal Oscillator



Model Name NH25M22WE Oven-Controlled Crystal Oscillator (OCXO) for Fixed Communication Equipment

■ Main Application

- Mobile communication base station
- Measuring instrument
- Synthesizer

- Exchanger
- High-end router

■ Features

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





■ Specifications

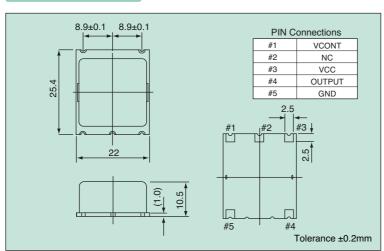
	Item Measuremer	nt condition Model	NH25M22WE
	Standard nominal frequency (MH	z)	19.44
	Power supply voltage		DC +3.3V
	Power consumption		2.4 W max. at the start and 1.2 W max. when stable (+25°C)
	Output level		HCMOS (Vol.: 0.4V max., Voh.: 2.4V min.)
	Load		10kΩ//15pF
Duty Cycle (1/2Vcc)			40 to 60%
	Operating temperature range		−10 to +70°C
iity	Frequency warm-up characteristic	+25°C three minutes after power is on	±500×10 ⁻⁹ max.
stability	Aging	Based on frequency after 30 days operation	±10×10 ⁻⁹ /day max.
اح		Based on frequency after 30 days operation	±500×10 ⁻⁹ /year max.
Frequency	Frequency / temperature characteristic	−10 to +70°C	±100×10 ⁻⁹ max.
Fre	Power supply variation characteristics	DC +3.3V±5%	±20×10 ⁻⁹ max.
	Frequency control characteristic	0 to +2.8 V, positive polarity	±2.0×10 ⁻⁶ min.

■ Reference Value

	Offset frequency	dBc/Hz
	1 Hz	-65 max.
Dhaga naisa (@10.44MLl=)	10 Hz	–95 max.
Phase noise (@19.44MHz)	100 Hz	–120 max.
	1k Hz	–125 max.
	10k Hz	-130 max.

The value of phase noise changes when the frequency changes.

■ Dimensions



■ List of Options

Power supply voltage		DC +5V	
	Nominal frequency (MHz)	10 to 38.88	

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

■ List of Ordering Codes

Frequency (MHz)	Ordering Code
19.44	NH25M22WE-19.44M-NSA3417A

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