

Crystal Oscillator

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

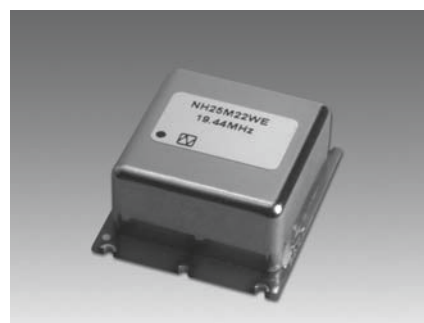
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■ Main Application

- 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.



RoHS Compliant
Directive 2002/95/EC

■ Specifications

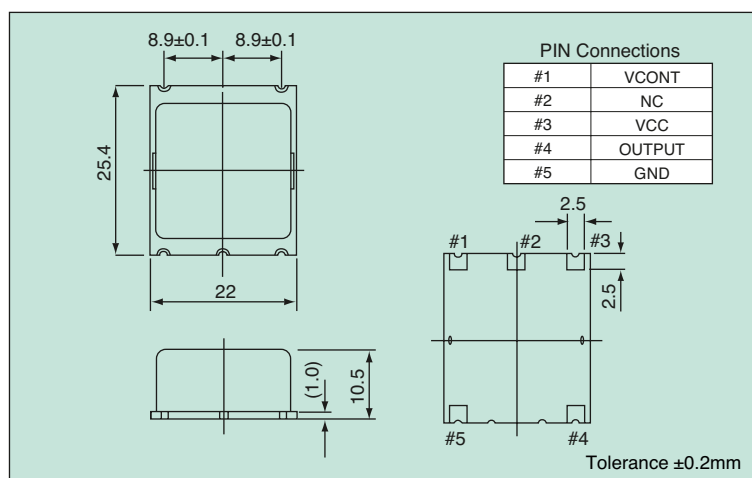
Item			Measurement condition	Model	NH25M22WE
Standard nominal frequency (MHz)					19.44
Power supply voltage					DC +3.3V
Power consumption					2.4 W max. at the start and 1.2 W max. when stable (+25°C)
Output level					HCMOS (V _{OL} : 0.4V max., V _{OH} : 2.4V min.)
Load					10kΩ//15pF
Duty Cycle (1/2V _{cc})					40 to 60%
Operating temperature range					−10 to +70°C
Frequency stability	Frequency warm-up characteristic	+25°C three minutes after power is on			±500×10 ^{−9} max.
	Aging	Based on frequency after 30 days operation			±10×10 ^{−9} /day max.
		Based on frequency after 30 days operation			±500×10 ^{−9} /year max.
	Frequency / temperature characteristic	−10 to +70°C			±100×10 ^{−9} max.
	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

Phase noise (@19.44MHz)	Offset frequency	dBc/Hz
	1 Hz	-65 max.
	10 Hz	-95 max.
	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.