



# Crystal Oscillator

## NH25M22WG Oven Controlled Crystal Oscillator (OCXO) for Fixed Communication Equipment

### Main Application

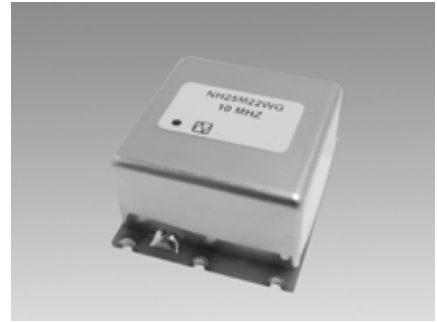
- Base stations for system mobile communications
- Optical transmission system
- Measuring instrument
- Synthesizer
- Exchanger
- High-end router

### Features

- Low height and low power-driven type.
- Low power consumption.
- Very quick stabilization time.
- Excellent long-term frequency stability. (Max.  $\pm 30 \times 10^{-9}$  / year)
- Excellent phase noise characteristics at frequency offsets. (-100dBc / Hz at 1Hz offset)

Pb Free

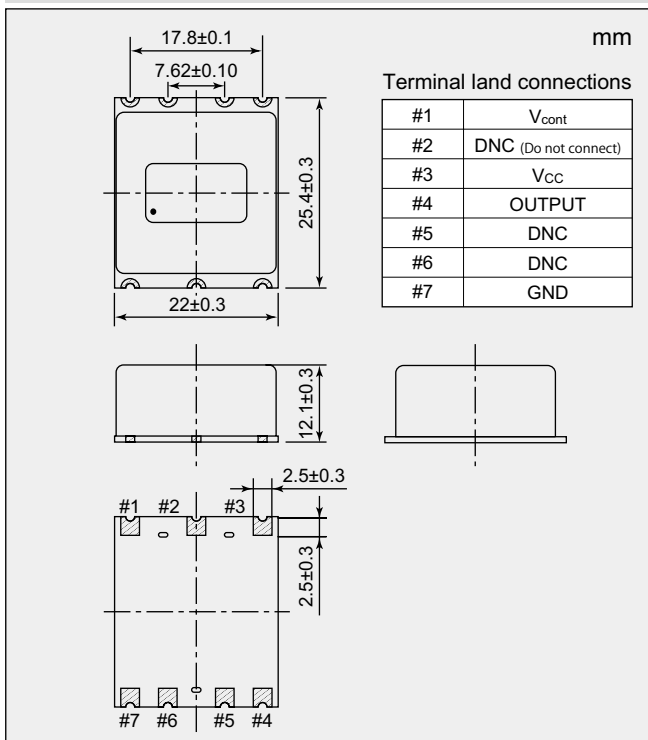
RoHS Compliant  
Directive 2011/65/EU



### Specifications

Item	Measurement condition	Model	NH25M22WG	
Nominal Frequency (MHz)			10	
Supply Voltage [V <sub>CC</sub> ] (V)			+3.3 $\pm$ 5 %	
Power Consumption (W)	at start		Max. 3	
	when stable (+25 °C)		Max. 1.0	Max. 1.3
Output Voltage			LVCMOS level (V <sub>OL</sub> Max. 0.3 V, V <sub>OH</sub> Min. 2.4 V)	
Symmetry (%)	at+(V <sub>OH</sub> + V <sub>OL</sub> ) / 2		40 to 60	
Load Impedance (pF)			15	
Operating Temperature Range (°C)			0 to +70	-40 to +85
Storage Temperature Range (°C)			-40 to +85	
Stabilization Time	Stabilization Time (Frequency Stability) within $\pm 200 \times 10^{-9}$ after power on at +25°C, based on frequency after 60minutes operation.		Max. 90 seconds	Max. 2 minutes
	Stabilization Time (Frequency Stability) within $\pm 50 \times 10^{-9}$ after power on at +25°C, based on frequency after 60minutes operation.		Max. 3 minutes	Max. 4 minutes
Long-term Frequency stability	Based on frequency after 30 days operation		Max. $\pm 1 \times 10^{-9}$ /day	
			Max. $\pm 30 \times 10^{-9}$ /year	
Frequency/Temperature Characteristics	within Operating Temperature Range		Max. $\pm 10 \times 10^{-9}$	
Frequency/Voltage Coefficient	V <sub>CC</sub> +3.3 V $\pm$ 5 %		Max. $\pm 3 \times 10^{-9}$	
Frequency Control range	V <sub>cont</sub> +1.4 $\pm$ 1.4 V		Min. $\pm 500 \times 10^{-9}$	
Frequency Change Polarity			Positive	
Specification Number			NSA3626A	NSC5066A

### Dimensions



### Reference Value

Phase Noise (at 10 MHz)	Offset Frequency	dBc/Hz
	1 Hz	Typ. -100
	10 Hz	Typ. -125
	100 Hz	Typ. -142
	1 kHz	Typ. -152
	10 kHz	Typ. -152
Short-term Frequency Stability (at 10MHz)	$\tau=1$	Typ. $3.8 \times 10^{-12}$

We offer a test instrument(charge) for measuring accurately.

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