

NH25M22WH

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

- Excellent temperature characteristics. (Max. $\pm 3 \times 10^{-9}$)
- 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

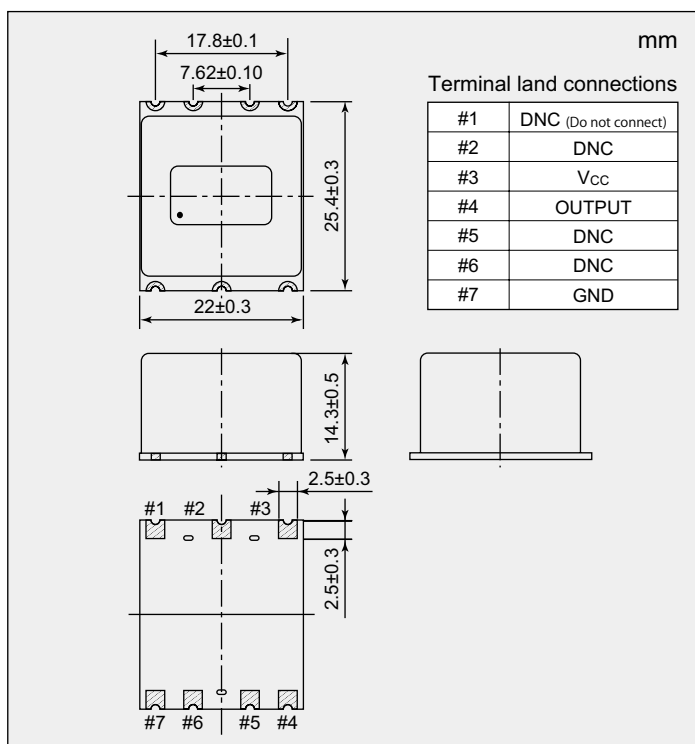
RoHS Compliant
Directive 2011/65/EU



■ Specifications

Item	Measurement condition	Model	NH25M22WH
Nominal frequency (MHz)			10
Supply voltage [V _{CC}] (V)			+5 $\pm$ 5 %
Power consumption (W)	at start		Max. 3
	when stable (+25 °C)		Max. 1.1
Output voltage			HCMOS level (V _{OL} Max. 0.5 V, V _{OH} Min. 3.5 V)
Symmetry (%)	at+(V _{OH} + V _{OL}) / 2		40 to 60
Load impedance (pF)			15
Operating temperature range (°C)			0 to +70
Storage temperature range (°C)			-40 to +85
Stabilization time	Stabilization Time (Frequency Stability) within $\pm 500 \times 10^{-9}$ after power on at +25°C, based on frequency after 60minutes operation.		Max. 90 seconds
	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
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	0 to +70 °C		Max. $\pm 3 \times 10^{-9}$
Frequency/Voltage coefficient	V _{CC} +5 V $\pm$ 5 %		Max. $\pm 3 \times 10^{-9}$

■ 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. 3.8×10^{-12}

■ List of Ordering Codes

Nominal frequency (MHz)	Ordering Code
10	NH25M22WH-10M-NSA3628A

We offer a test instrument(charge) for measuring accurately.
The above frequency are NDK's standard frequency.
Frequencies other than the above are available. Feel free to contact our sales representatives.