

Crystal Oscillator

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

Main Application

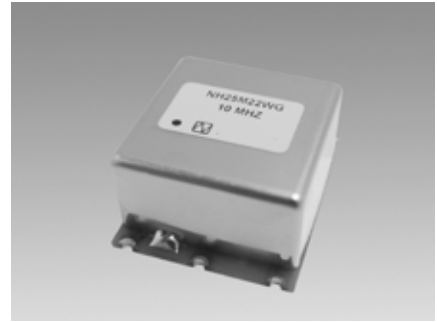
- Base stations for system mobile communications
- Optical transmission system
- Measuring instrument
- Synthesizer
- Exchanger
- High-end router

Features

- Low power consumption.
- Very quick stabilization time.
- Excellent long-term frequency stability.
- Low near-carrier phase noise characteristics.

Pb Free

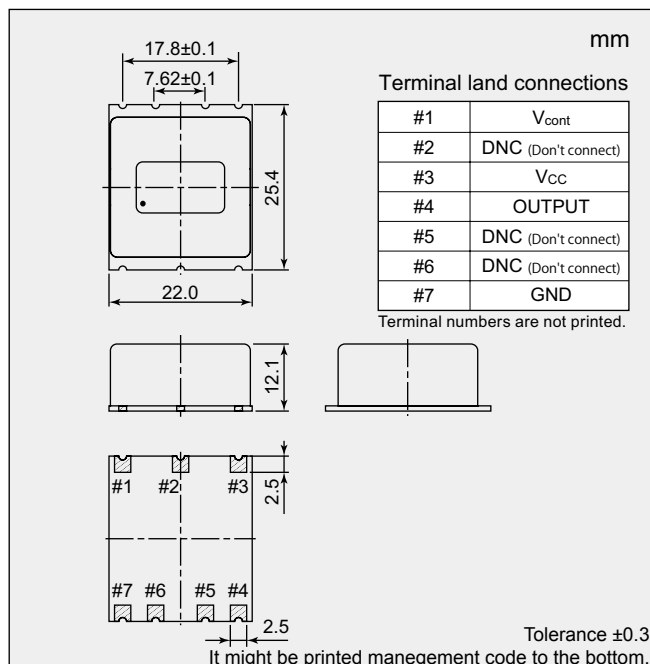
RoHS Compliant
Directive 2011/65/EU



Specifications

Item	Model	NH25M22WG			
Nominal Frequency f_{nom} (MHz)		10			
Supply Voltage V_{CC} (V)		+3.3		+5	
Load Impedance C_L (pF)		15			
Operating Temperature Range T_{opr} (°C)		0 to +70	-40 to +85	0 to +70	-40 to +85
Storage Temperature Range T_{str} (°C)		-40 to +85			
Power Consumption P_{CC} (W)	at start	Max. 3.0			
	when stable, at +25 °C	Max. 1.3			
Frequency Tolerance $\Delta f/f_{nom}$	at +25°C, V_{cont} = Center, before shipment	Max. 200×10^{-9}			
Frequency/Temperature Characteristics $\Delta f/f$	at Operating Temperature Range	Max. $\pm 10 \times 10^{-9}$			
Frequency/Voltage Coefficient $\Delta f/f$	$V_{CC} \pm 5\%$	Max. $\pm 3 \times 10^{-9}$			
Long-term Frequency Stability $\Delta f/f$	Based on frequency after 30 days operation	Max. $\pm 1 \times 10^{-9}$ / day			
		Max. $\pm 50 \times 10^{-9}$ / year			
Stabilization Time (min.)	Time within specified frequency tolerance after power on at +25°C, based on frequency after 60minutes operation.	Max. 3 / within $\pm 200 \times 10^{-9}$			
Frequency Control Range $\Delta f/f$	$V_{cont} = +1.4V \pm 1.4V$	$V_{cont} = +1.65V \pm 1.65V$	$V_{cont} = +2V \pm 2V$	$V_{cont} = +2.5V \pm 2.5V$	
	Min. $\pm 500 \times 10^{-9}$	Min. $\pm 500 \times 10^{-9}$	Min. $\pm 500 \times 10^{-9}$	Min. $\pm 500 \times 10^{-9}$	
Frequency Change Polarity		Positive			
Output Voltage	LVC MOS V_{OL} : Max. +0.4 V V_{OH} : Min. +2.4 V	HCMOS V_{OL} : Max. +0.5 V V_{OH} : Min. +4.5 V	LVC MOS		
			V_{OL} : Max. +0.4 V V_{OH} : Min. +2.4 V		
Symmetry (%)	at $(V_{OH} + V_{OL}) / 2$	40 to 60			
Specification Number		NSC5127A	NSC5127B	NSC5128A	NSC5128B

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	

We offer dedicated tool for evaluation of this product

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