

## NH25M22TA Oven Controlled Crystal Oscillator (OCXO) for Fixed Communication Equipment

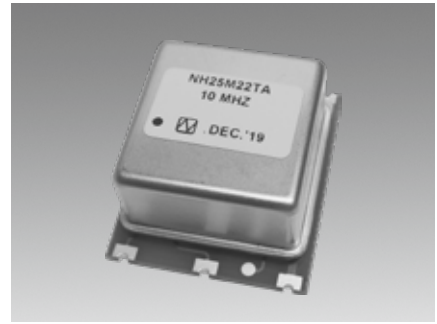
### ■ Main Application

- Mobile phone base station(5G CU, 4G BBU)
- IEEE1588, synchronous Ethernet clock (SyncE)      • Optical transmission system
- Stratum 3E • Frequency Synthesizer • Timing and synchronization measuring equipment

### ■ Features

- Excellent temperature characteristics.
- Excellent Long-term frequency stability.
- Very quick stabilization time.
- Hermetic sealing package for excellent environmental-proof performance.

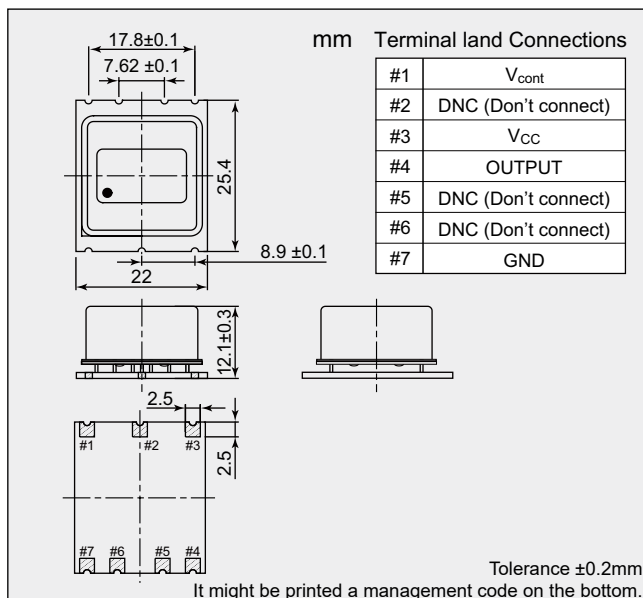
**RoHS Compliant**  
Directive 2011/65/EU  
Directive (EU) 2015/863



### ■ Specifications

Item	Model	NH25M22TA
Nominal Frequency $f_{nom}$ (MHz)		5, 10, 12.8, 13, 19.2, 20, 25.6, 30.72, 38.88, 40
Supply Voltage $V_{CC}$ (V)		+3.3
Load Impedance $C_L$ (pF)		15
Operating Temperature Range $T_{opr}$ (°C)		-40 to + 85
Storage Temperature Range $T_{str}$ (°C)		-40 to + 85
Power Consumption $P_{CC}$ (W)	at start	Max. 4.0
	when stable, at +25 °C	Max. 1.2
Frequency Tolerance $\Delta f/f_{nom}$	at +25°C, before shipment	Max. $100 \times 10^{-9}$
Frequency/Temperature Characteristics $\Delta f/f$	at Operating Temperature Range	Max. $\pm 1 \times 10^{-9}$
Frequency/Voltage Coefficient $\Delta f/f$	$V_{CC} \pm 5\%$	Max. $\pm 1 \times 10^{-9}$
Long-term Frequency Stability $\Delta f/f$	Based on frequency after 30 days operation	Max. $\pm 0.5 \times 10^{-9}$ / 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. 5 / within $\pm 100 \times 10^{-9}$
Frequency Control Range $\Delta f/f$		$V_{cont} = +1.4V \pm 1.4V$
		Min. $\pm 1 \times 10^{-6}$
Frequency Change Polarity		Positive
Output Voltage		LVC MOS $V_{OL}$ : Max. +0.3 V $V_{OH}$ : Min. +3.0 V
Symmetry (%)	at ( $V_{OH} + V_{OL}$ ) / 2	45 to 55
Specification Number		NSC5244A

### ■ Dimensions



### ■ Reference Value

	Offset Frequency	dBc/Hz
Phase Noise (at 10 MHz)	1 Hz	Typ. -80
	10 Hz	Typ. -105
	100 Hz	Typ. -130
	1 kHz	Typ. -150
	10 kHz	Typ. -160
	100 kHz	Typ. -160

We offer dedicated tool (charge) 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.