

NH25M22TE

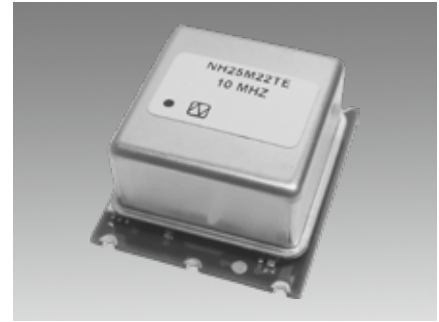
Oven Controlled Crystal Oscillator (OCXO)
for Fixed Communication Equipment

Main Application

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

Features

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

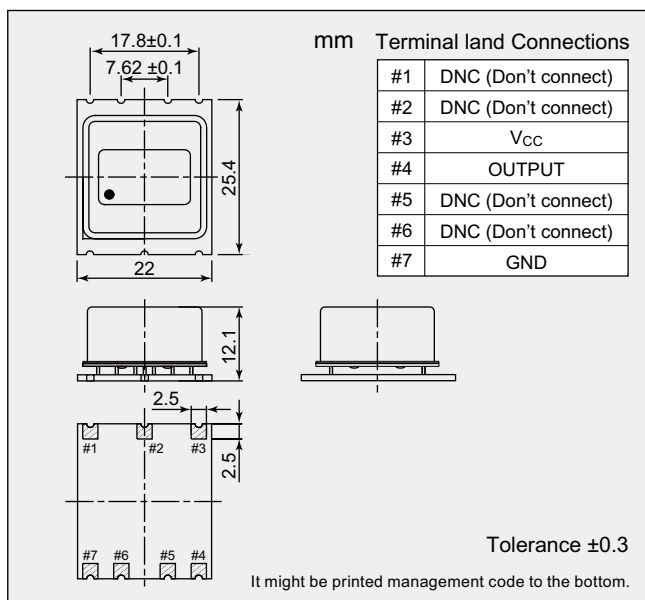


RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863

Specifications

Item	Model	NH25M22TE
Nominal Frequency f_{nom} (MHz)		10
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. 3.3
	when stable, at +25 °C	Max. 2.0
Frequency Tolerance $\Delta f/f_{nom}$	at +25°C, before shipment	Max. 200×10^{-9}
Frequency/Temperature Characteristics $\Delta f/f$	at Operating Temperature Range	Max. $\pm 3 \times 10^{-9}$
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. $\pm 1 \times 10^{-9}$ / 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 $\pm 200 \times 10^{-9}$
Output Voltage		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		NSC5241A

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. -155	
100 kHz	Typ. -155	

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.