

Crystal oscillator for 5G

NH25M22TA

Oven Controlled Crystal Oscillator (OCXO)
for Fixed Communication Equipment

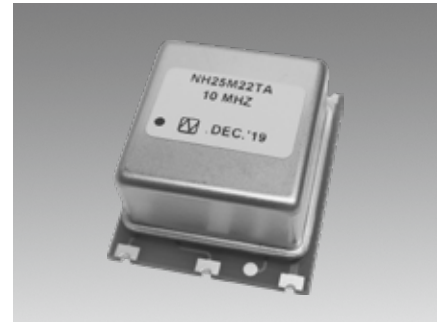
Main Application

- 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.

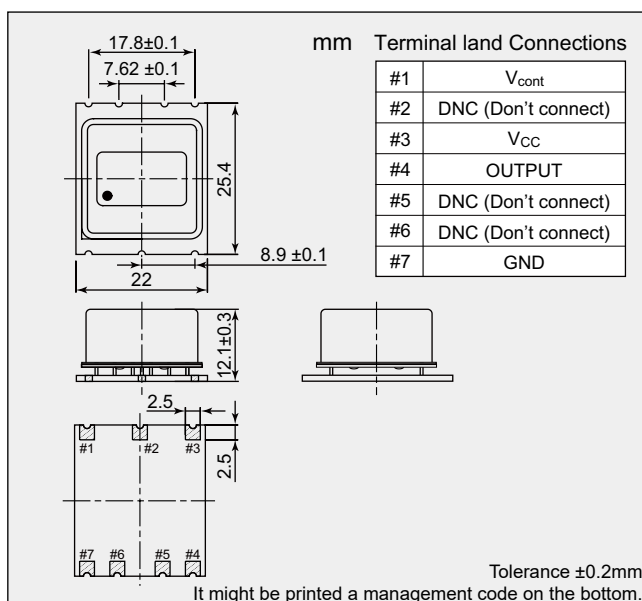
RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863



Specifications

Item	Model	NH25M22TA
Nominal Frequency f_{nom} (MHz)		10, 30.72
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. 100×10^{-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

Dimensions



Reference Value

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

Contact Us

Standard catalog specifications are listed for the products listed.
Custom is available upon request.
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