Crystal Oscillator



NH20M20LB / NH25M22TA

High Precision Oscillator (Twin-OCXO) for Fixed Communication Equipment

Model: NH25M22TA

■ Main Application

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

■ Features

- Compact and excellent temperature characteristics.
- Excellent long-term frequency stability.
- Excellent phase noise characteristics.
- Hermetic sealing package for excellent environmental-proof performance.
- Supports wide temperature range (-40 to +85 °C)



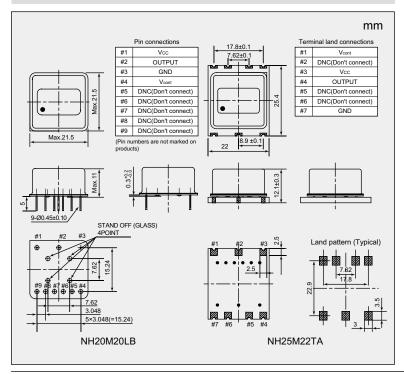


■ Specifications

Item Measurement condition		NH20M20LB	NH25M22TA
Nominal Frequency Range (MHz)		5 to 40	
Nominal Frequency (MHz)		10, 12.8, 13, 16.384, 19.2, 20, 25, 26, 30.72, 38.4, 38.88, 40	
Supply Voltage [Vcc] (V)		+3.3 ± 5 %	
Power Consumption (W)	at start	Max. 4.0	
	when stable (+25 °C)	Max. 1.2	
Output Voltage		LVCMOS (Vol Max. 0.3 V, Voh Min. 3 V)	
Symmetry (%)	at 1/2 V _{CC}	45 to 55	
Load Impedance (pF)		15	
Operating Temperature Range (°C)		-40 to +85	
Storage Temperature Range (°C)		-40 to +85	
Stabilization Time	Stabilization Time (Frequency Stability) within ±100 ×10 ⁻⁹ after power on at +25°C, based on frequency after 60minutes operation.	Max. 5 minutes	
Long-term Frequency Stability	Based on frequency after 30 days operation	Max. ±1×10 ⁻⁹ /day	
Long-term requency Stability		Max. ±80×10 ⁻⁹ /year	
Frequency/Temperature Characteristics		Max. ±3×10 ⁻⁹	
Frequency/Voltage Coefficient	Vcc +3.3 V ±5 %	Max. ±1×10 ⁻⁹	
Frequency Control Range	V _{cont} +0 V to +2.8 V (@ +1.4V)	Min. ±1.0×10⁻⁶	
Frequency Change Polarity	Frequency change polarity	Positive	
Trequency change Polatity	Linearity	Тур. 1%	
Specification Number		NSA3577A	NSA3566A

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■ Dimensions



■ Reference Value

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

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