

NH20M20LB

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

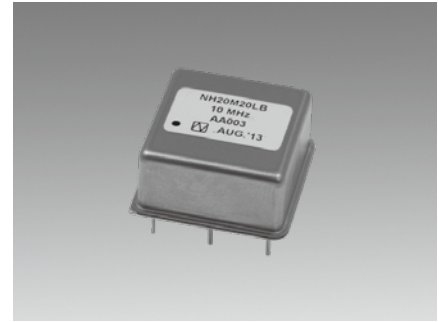
Main Application

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

Features

- Compact and excellent temperature characteristics.
- Excellent long-term frequency stability.
- Excellent phase noise characteristics.
- Supports wide temperature range

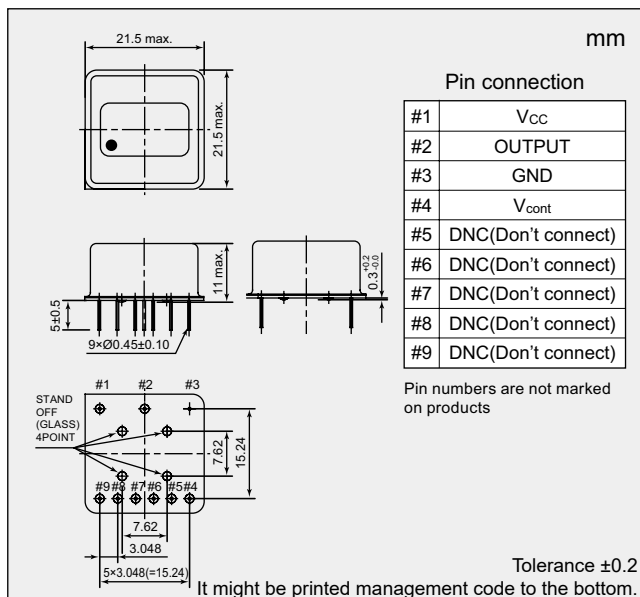
RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863



Specifications

Item	Model	NH20M20LB
Nominal Frequency Range (MHz)		5 to 40
Nominal Frequency f_{nom} (MHz)		10, 12.8, 13, 19.2, 20, 25.6, 30.72, 38.88
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, V_{cont} = Center, before shipment	Max. 100×10^{-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. $\pm 80 \times 10^{-9}$ / 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
Linearity (%)		Typ. ± 1
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		NSA3577A

Dimensions



Reference Value

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