

Crystal Oscillator

Model Name NH26M26LB Oven-Controlled Crystal Oscillator (OCXO) for Fixed Communication Equipment

Main Application

- Mobile communication base station
- Measuring instrument
- Synthesizer
- Exchanger
- High-end router

Features

- Compact.
- Excellent rise characteristics.
- Excellent phase noise characteristics.
- Excellent aging characteristics.

RoHS Compliant
Directive 2002/95/EC



Specifications

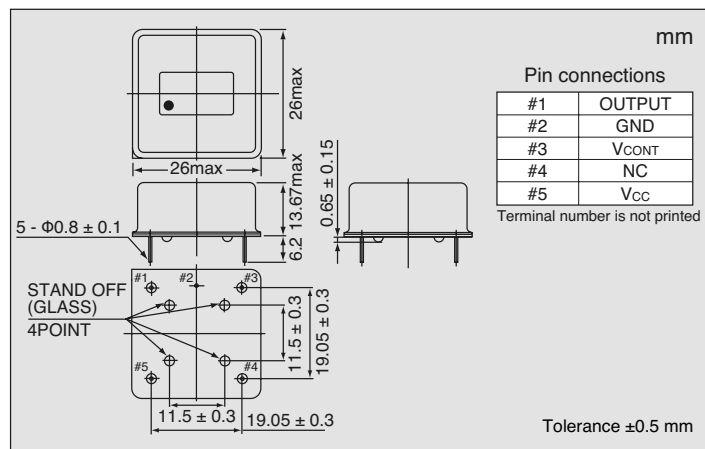
Item	Measurement condition	Model	NH26M26LB
Nominal frequency (MHz)			10
Supply voltage [V _{CC}] (V)			+5 ±5 %
Power consumption (W)	at start		Max. 3
	when stable (+25 °C)		Max. 1.3
Output voltage			HCMOS level (V _{OL} Max. 0.5 V, V _{OH} Min. 4.5 V)
Symmetry (%)	at 1/2 V _{CC}		40 to 60
Load impedance (pF)			15
Operating temperature range (°C)			-10 to +70
Frequency tolerance	Stabilization time	Stabilization Time (Frequency Stability) within ±50 ×10 ⁻⁹ after power on at +25°C, based on frequency after 60minutes operation.	3 minutes
	Long-term frequency stability	Based on frequency after 72 hours operation	Max. ±2×10 ⁻⁹ /day
		Based on frequency after 72 hours operation	Max. ±100×10 ⁻⁹ /year
	Frequency/Temperature characteristics	-10 °C to +70 °C	Max. ±10×10 ⁻⁹
Frequency/Voltage coefficient	V _{CC} +5 V ±5 %	Max. ±5×10 ⁻⁹	
Frequency control range	+2.5 ±2.5 V		Min. ±1×10 ⁻⁶
Frequency change polarity			Positive

Reference Value

Phase noise (at 10 MHz)	Offset frequency	dBc/Hz
	1 Hz	Max. -80
	10 Hz	Max. -120
	100 Hz	Max. -140
	1 kHz	Max. -145
	10 kHz	Max. -150

The value of phase noise changes when the frequency changes.

Dimensions



List of Options

Operating temperature range (°C)	-40 to +70
Power supply voltage [V _{CC}] (V)	+3.3
Nominal frequency range (MHz)	10 to 20

For details of options, please feel free to contact our sales representatives.

List of Ordering Codes

Frequency (MHz)	Ordering Code
10	NH26M26LB-10M-NSA3426A

The above frequencies are NDK's standard frequencies. Frequencies other than the above are available. Feel free to contact our sales representatives.