Crystal Oscillator

NDK Crystal Bridge to the Future

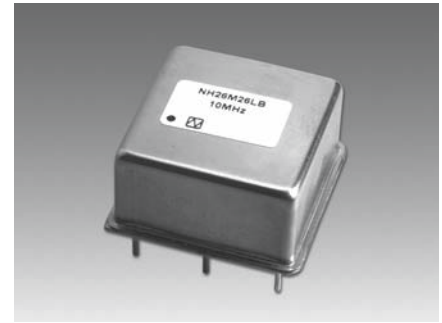## Model Name NH26M26LB   Oven-Controlled Crystal Oscillator (OCXO) for Fixed Communication Equipment

■ 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.
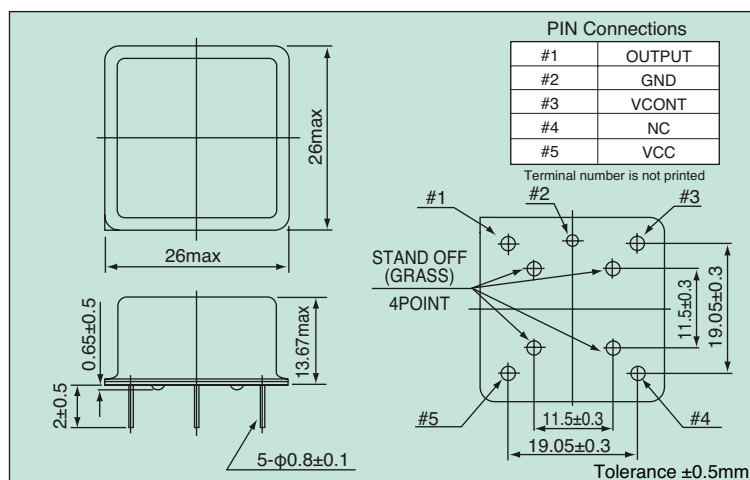
RoHS Compliant
Directive 2002/95/EC

■ Specifications

Item	Measurement condition	Model NH26M26LB
Standard nominal frequency (MHz)		10
Power supply voltage		DC +5V
Power consumption		3 W max. at the start and 1.3 W max. when stable (+25°C)
Output level		HCMOS (V_{OL} : 0.5V max., V_{OH} : 4.5V min.)
Load		15pF
Duty Cycle (1/2Vcc)		40 to 60%
Operating temperature range		−10 to +70°C
Frequency stability	Frequency warm-up characteristic	+25°C three minutes after power is on	$\pm50\times10^{-9}$ max.
	Aging	Based on frequency after 72 hours operation	$\pm2\times10^{-9}$/day max.
		Based on frequency after 72 hours operation	$\pm100\times10^{-9}$/year max.
	Frequency / temperature characteristic	−10 to +70°C	$\pm10\times10^{-9}$ max.
	Power supply variation characteristics	DC +5V±5%	$\pm5\times10^{-9}$ max.
	Frequency control characteristic	0 to +5 V, positive polarity	$\pm1\times10^{-6}$ min.

■ Reference Value

	Offset frequency	dBc/Hz
Phase noise (@10MHz)	1 Hz	−80 max.
	10 Hz	−120 max.
	100 Hz	−140 max.
	1k Hz	−145 max.
	10k Hz	−150 max.

The value of phase noise changes when the frequency changes.

■ Dimensions

26max

26max

0.65±0.5

13.67max

2±0.5

5-φ0.8±0.1

PIN Connections

#1	OUTPUT
#2	GND
#3	VCONT
#4	NC
#5	VCC

Terminal number is not printed

#1   #2   #3

STAND OFF
(GRASS)
4POINT

11.5±0.3
19.05±0.3

#5   #4

11.5±0.3
19.05±0.3

Tolerance ±0.5mm

■ List of Options

Operating temperature range	−40 to +70°C
Power supply voltage	DC +3.3V
Nominal frequency (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.