

# Crystal Oscillator

## Model Name NH26M26LG

Oven Controlled Crystal Oscillator (OCXO)  
for Fixed Communication Equipment

### ■ Main Application

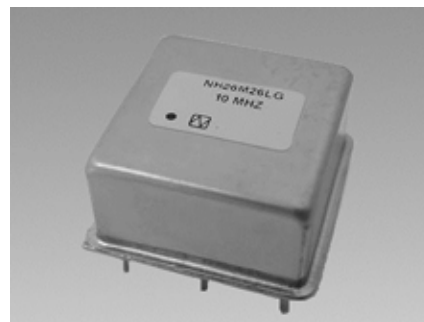
- Base stations for Mobile communication system
- Exchanger
- Measuring instrument
- Synthesizer
- High-end router

### ■ Features

- Compact, with a low height.
- Excellent rise characteristics.
- Excellent phase noise characteristics. (10MHz : -150dBc/Hz at 1kHz)
- Excellent long-term frequency stability.( $\pm 100 \times 10^{-9}$ /year)

Pb  
Free

RoHS Compliant  
Directive 2011/65/EU



### ■ Specifications

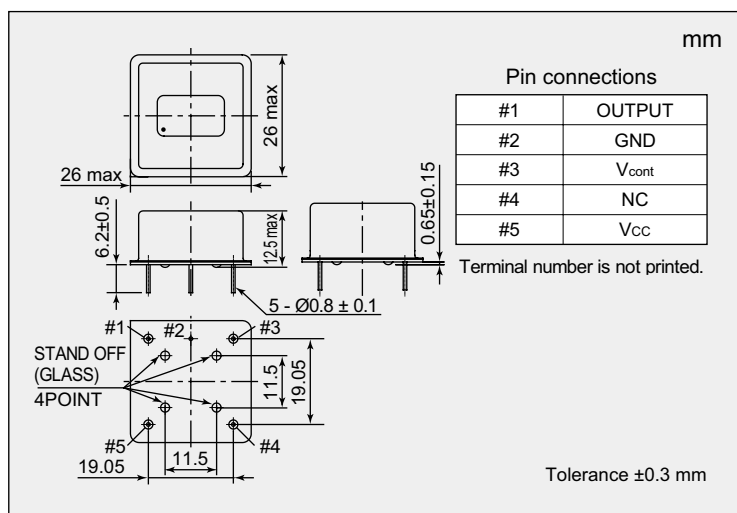
Item	Measurement condition	Model	NH26M26LG
Nominal frequency (MHz)			10, 13
Supply voltage [V <sub>CC</sub> ] (V)			+5 $\pm$ 5 %
Power consumption (W)	at start		Max.
	when stable (+25 °C)		Max. 1W
Output voltage			HCMOS level (V <sub>OL</sub> Max. 0.5 V, V <sub>OH</sub> Min. 4.5 V)
Symmetry (%)	at 1/2 V <sub>CC</sub>		40 to 60
Load impedance (pF)			15
Operating temperature range (°C)			0 to +70
Storage temperature range (°C)			-40 to +85
Stabilization time	Stabilization Time (Frequency Stability) within $\pm 50 \times 10^{-9}$ after power on at +25°C , based on frequency after 60minutes operation.		Max. 3 minutes
Long-term frequency stability	Based on frequency after 72 hours operation		Max. $\pm 3 \times 10^{-9}$ /day
	Based on frequency after 72 hours operation		Max. $\pm 100 \times 10^{-9}$ /year
Frequency/Temperature characteristics	0 to +70 °C		Max. $\pm 20 \times 10^{-9}$
Frequency/Voltage coefficient	V <sub>CC</sub> +5 V $\pm$ 5 %		Max. $\pm 5 \times 10^{-9}$
Frequency control range	V <sub>cont</sub> +2 $\pm$ 2 V		Min. $\pm 800 \times 10^{-9}$
Frequency change polarity			Positive

### ■ Reference Value

Phase noise (at 10 MHz)	Offset frequency	dBc/Hz
	1 Hz	Typ. -100
	10 Hz	Typ. -125
	100 Hz	Typ. -140
	1 kHz	Typ. -150
	10 kHz	Typ. -155

The value of phase noise changes when the frequency changes.

### ■ Dimensions



### ■ List of Ordering Codes

Nominal frequency (MHz)	Ordering Code
10	NH26M26LG-10M-NSA3605A
13	NH26M26LG-13M-NSA3605A

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