

Crystal Oscillator

Model Name NH26M26LG

Oven Controlled Crystal Oscillator (OCXO)
for Fixed Communication Equipment

Main Application

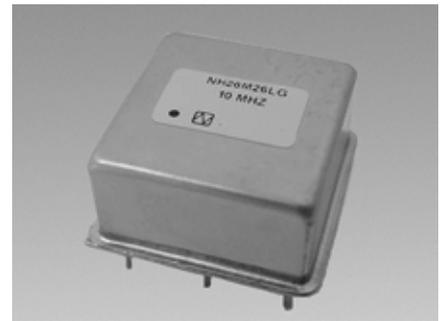
- Base stations for Mobile communication system
- Exchanger
- Measuring instrument
- Synthesizer
- High-end router

Features

- Compact, with a low height.
- Excellent rise characteristics.
- Excellent phase noise characteristics. (10MHz : -150dBc/Hz at 1kHz)
- Excellent long-term frequency stability.(±100×10⁻⁹/year)

Pb Free

RoHS Compliant
Directive 2011/65/EU



Specifications

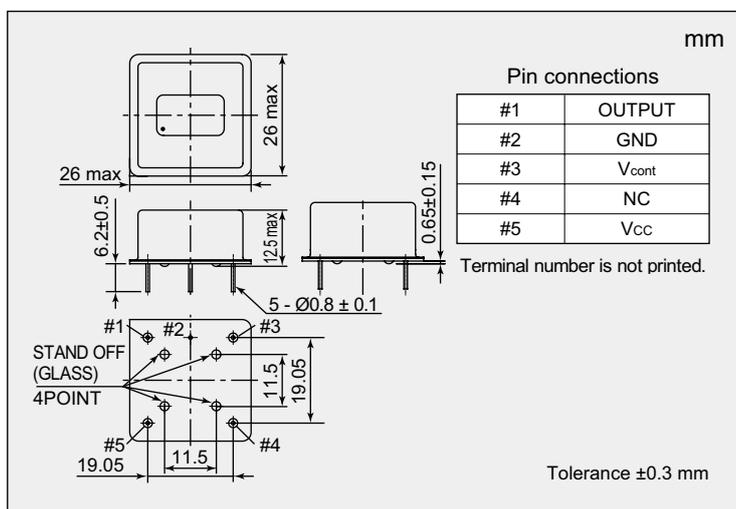
Item	Measurement condition	Model	NH26M26LG
Nominal frequency (MHz)			10, 13
Supply voltage [V _{CC}] (V)			+5 ±5 %
Power consumption (W)	at start		Max. 3
	when stable (+25 °C)		Max. 1.3
Output voltage			HCMOS level (V _{OL} Max. 0.5 V, V _{OH} Min. 4.5 V)
Symmetry (%)	at 1/2 V _{CC}		40 to 60
Load impedance (pF)			15
Operating temperature range (°C)			0 to +70
Storage temperature range (°C)			-40 to +85
Stabilization time	Stabilization Time (Frequency Stability) within ±50 × 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. ±3×10 ⁻⁹ /day
	Based on frequency after 72 hours operation		Max. ±100×10 ⁻⁹ /year
Frequency/Temperature characteristics	0 to +70 °C		Max. ±20×10 ⁻⁹
Frequency/Voltage coefficient	V _{CC} +5 V ± 5 %		Max. ±5×10 ⁻⁹
Frequency control range	V _{cont} +2 ± 2 V		Min. ±800×10 ⁻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.