Crystal Oscillator

NDK Crystal Bridge to the Future

Model Name NH26M26LC

Oven Controlled Crystal Oscillator (OCXO)
for Fixed Communication Equipment

■ Main Application

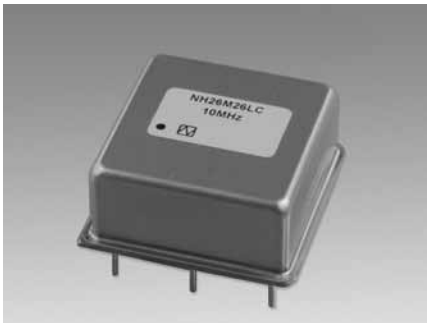
- Base stations for Mobile communication system
- Exchanger
- Measuring instrument
- Synthesizer
- High-end router

■ Features

- Compact, with a low height.
- Excellent rise characteristics.
- Excellent phase noise characteristics. (10MHz : -151dBc/Hz at 1kHz)
- Excellent long-term frequency stability.(±50×10^{-9}/year)

Pb Free

RoHS Compliant
Directive 2011/65/EU



■ Specifications

Item \ Measurement condition \ Model		NH26M26LC
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)		−20 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. ±2×10^{-9}/day
	Based on frequency after 72 hours operation	Max. ±50×10^{-9}/year
Frequency/Temperature characteristics	−20 to +70 °C	Max. ±10×10^{-9}
Frequency/Voltage coefficient	V_{CC} +5 V ± 5 %	Max. ±3×10^{-9}
Frequency control range	V_{cont} +2 ± 2 V	Min. ±1×10^{-6}
Frequency change polarity		Positive

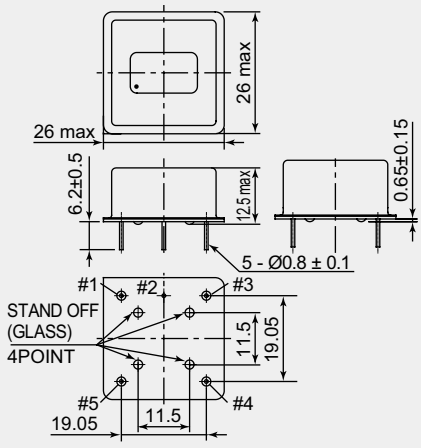
■ Reference Value

	Offset frequency	dBc/Hz
Phase noise (at 10 MHz)	1 Hz	Typ. −100
	10 Hz	Typ. −125
	100 Hz	Typ. −142
	1 kHz	Typ. −151
	10 kHz	Typ. −155

The value of phase noise changes when the frequency changes.

■ Dimensions

mm



Pin connections

#1	OUTPUT
#2	GND
#3	V_{cont}
#4	NC
#5	V_{CC}

Terminal number is not printed.

Tolerance ±0.3 mm

■ List of Ordering Codes

Nominal frequency (MHz)	Ordering Code
10	NH26M26LC-10M-NSA3539A

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