Crystal Oscillator



Model Name NH37M28LC

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

■ Main Application

- Base stations for Mobile communications system(LTE, WiMAX).
- Measuring instrument
 Synthesizer
 Exchanger

■ Features

- Excellent Temperature Characteristics.
- Low power consumption.

- Compact.
- Excellent rise characteristics.
- Excellent phase noise characteristics.
- Excellent Long-term Frequency Stability.



RoHS Compliant
Directive 2011/65/EU

· High-end router



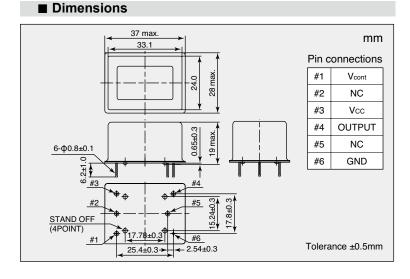
■ Specifications

Model		NH37M28LC
Item Measurement condition		1411071M2020
Nominal frequency (MHz)		10
Supply voltage [Vcc] (V)		+5.0 ±5 %
Power consumption (W)	at start	Max. 3.5
	when stable (+25 °C)	Max. 1.3
Output voltage (V)		HCMOS level (Vol Max. 0.5 V, Voh Min. 4.5 V)
Symmetry (%)	at 1/2 Vcc	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 ±100 ×10 ⁻⁹ after power on at +25°C, based on frequency after 60minutes operation.	Max. 10 minutes
Long-term frequency stability	Based on frequency after 30 days operation	Max. ±0.5×10 ⁻⁹ /day
	Based on frequency after 30 days operation	Max. ±50×10 ⁻⁹ /year
Frequency/Temperature characteristics		Max. ±5.0×10 ⁻⁹
Frequency/Voltage coefficient	Vcc +5 V ± 5 %	Max. ±1.0×10 ⁻⁹
Frequency control range	V _{cont} +2.0 ± 2.0V	Min. ±500×10⁻⁶
Frequency change polarity		Positive

■ Reference Value

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

The value of phase noise changes when the frequency changes.



■ List of Ordering Codes

Nominal frequency (MHz)	Ordering Code
10	NH37M28LC-10M-NSA3487A

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