

## 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    • High-end router

### ■ Features

- Excellent Temperature Characteristics.
- Low power consumption.
- Compact.
- Excellent rise characteristics.
- Excellent phase noise characteristics.
- Excellent Long-term Frequency Stability.

Pb  
Free

RoHS Compliant  
Directive 2011/65/EU



### ■ Specifications

Item	Measurement condition	Model	NH37M28LC
Nominal frequency (MHz)			10
Supply voltage [V <sub>CC</sub> ] (V)			+5.0 ±5 %
Power consumption (W)	at start		Max. 3.5
	when stable (+25 °C)		Max. 1.3
Output voltage (V)			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)			-20 to +70
Storage temperature range (°C)			-40 to +85
Stabilization time	Stabilization Time (Frequency Stability) within ±100 ×10 <sup>-9</sup> 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 <sup>-9</sup> /day
	Based on frequency after 30 days operation		Max. ±50×10 <sup>-9</sup> /year
Frequency/Temperature characteristics			Max. ±5.0×10 <sup>-9</sup>
Frequency/Voltage coefficient	V <sub>CC</sub> +5 V ± 5 %		Max. ±1.0×10 <sup>-9</sup>
Frequency control range	V <sub>cont</sub> +2.0 ± 2.0V		Min. ±500×10 <sup>-6</sup>
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.

### ■ Dimensions

