

Model Name NH37M28LC

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

Main Application

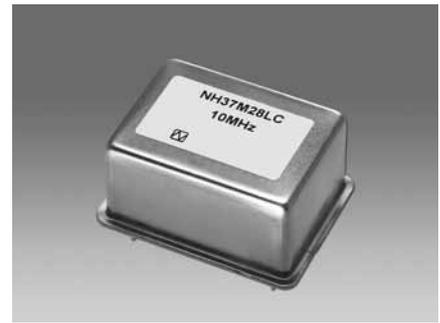
- Base stations for Mobile communications system(LTE , WiMAX).
- Measuring instrument • Synthesizer • Exchanger • High-end router

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 _{CC}] (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 _{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 ±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	V _{CC} +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.

Dimensions

