Crystal Oscillator



Model Name NH37M28LB Oven-Controlle

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

■ Main Application

- Mobile communications
 Measuring instrument
 base station
 Synthesizer
- Exchanger
- High-end router

RoHS Compliant

Directive 2002/95/EC



Features

- Compact.
- Excellent rise characteristics.
- Excellent phase noise characteristics.
- Excellent aging characteristics.

Specifications

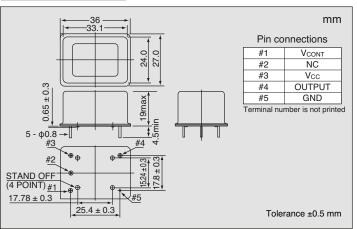
Iter	m Measureme	nt condition Model	NH37M28LB
Nominal frequency (MHz)			10
Supply voltage [V _{cc}] (V)			+5 ±5 %
Power consumption (W)		at start	Max. 3
		when stable (+25 °C)	Max. 1.3
Output voltage			HCMOS level (VoL Max. 0.5 V, VoH Min. 4.5 V)
Symmetry (%)		at 1/2 Vcc	40 to 60
Load impedance (pF)			15
Op	erating temperature range (°C)		-10 to +70
rance	Stabilization time	Stabilization Time (Frequency Stability) within ±50 ×10 ⁻⁹ after power on at +25°C , based on frequency after 60minutes operation.	5 minutes
Frequency tolerance	Long-term frequency stability	Based on frequency after 72 hours operation	Max. ±2×10 ⁻⁹ /day
		Based on frequency after 72 hours operation	Max. ±100×10 ⁻⁹ /year
	Frequency/Temperature characteristics	-10 °C to +70 °C	Max. ±10×10 ⁻⁹
	Frequency/Voltage coefficient	Vcc +5 V ±5 %	Max. ±1×10 ⁻⁹
Frequency control range +2.5 ±2.5 V		+2.5 ±2.5 V	Min. ±1×10 ⁻⁶
Fre	quency change polarity		Positive

■ Reference Value

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

The value of phase noise changes when the frequency changes.

Dimensions



List of Options

Operating temperature range (°C)	-40 to +70
Power supply voltage [Vcc] (V)	+3.3
Nominal frequency range (MHz)	10 to 40

For details of options, please feel free to contact our sales representatives.

■ List of Ordering Codes

Frequency (MHz)	Ordering Code
10	NH37M28LB-10M-NSA3423A

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

NIHON DEMPA KOGYO CO., LTD.