

NH14M09WA

High Precision Oscillator (Twin-OCXO) for Fixed Communication Equipment

■ Main Application

- Base stations for system mobile communications Optical transmission system
- Measuring instrument
 Synthesizer
 Exchanger
 High-end router

■ Features

- · Compact.
- · Excellent temperature characteristics.
- Excellent Long-term frequency stability.
- Excellent phase noise characteristics.
- Supports wide temperature range.(-40 to +85°C)



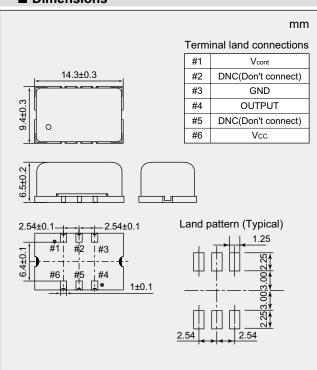




■ Specifications

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Model Item Measurement condition		NH14M09WA
Nominal Frequency Range (MHz)		5 to 40
Nominal Frequency (MHz)		10, 12.8, 13, 16.384, 19.2, 20, 25, 26, 30.72, 38.4, 38.88, 40
Supply Voltage [Vcc] (V)		+3.3 ±5 %
Power Consumption (W)	at start	Typ. 1.3 (Max. 2.0)
	when stable (+25 °C)	Typ. 0.6 (Max. 1.0)
Output Voltage		LVCMOS (Vol Max. 0.3 V, Von Min. 3 V)
Symmetry (%)	at 1/2 Vcc	45 to 55
Load Impedance (pF)		15
Operating Temperature Range (°C)		Refer to *1
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. 3 minutes
Long-term Frequency Stability	Based on frequency after 30 days operation	Max. ±5×10 ⁻⁹ /day
	Based on frequency after 30 days operation	Max. ±300×10 ⁻⁹ /year
Frequency/Temperature Characteristics		Refer to *1
Frequency/Voltage Coefficient	Vcc +3.3 V ±5 %	Typ. ±5×10 ⁻⁹ (Max. ±10×10 ⁻⁹)
Frequency Control Range	V _{cont} +0.2 V to +2.8 V (@ +1.5V)	Min. ±5.0×10⁻⁶
Frequency Change Polarity	Frequency Change Polarity	Positive
	Linearity	Typ. 1%

■ Dimensions



■ Reference Value

Phase noise (at 10 MHz)	Offset frequency	dBc/Hz
	1 Hz	-75
	10 Hz	-100
	100 Hz	−125
	1 kHz	-150
	10 kHz	-160

■ Specification Number

Operating temperature range (°C)	−20 to +70
Frequency/temperature characteristics	Max. ±10×10 ⁻⁹
Specification Number	NSA3540A
Operating temperature range (°C)	-20 to +70
Frequency/temperature characteristics	Max. ±50×10⁻9
Specification Number	NSA3540B
Operating temperature range (°C)	-40 to +85
Frequency/temperature characteristics	Max. ±10×10 ⁻⁹
Specification Number	NSA3540C
Operating temperature range (°C)	-40 to +85
Frequency/temperature characteristics	Max. ±50×10 ⁻⁹
Specification Number	NSA3540D

Please specify the model name, frequency, and specification number when you order products. For further questions regarding specifications, please feel free to contact us. s regarding specifications, please feel free to contact us.