Crystal Oscillator

NH14M09TA

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

Main Application

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

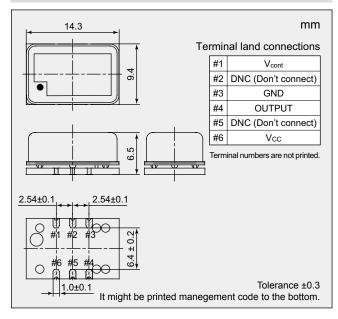
Features

- · Compact and excellent temperature characteristics.
- Excellent long-term frequency stability.
- Excellent phase noise characteristics.
- Supports wide temperature range.
- Hermetic sealing package for excellent environmental-proof performance.

Specifications

Item		NH14M09TA		
Item Nominal Frequency Range (MHz)		5 to 40		
Nominal Frequency Range (MHz)		10 12 8 13		30 72 39 99
Supply Voltage Vcc (V)		10, 12.8, 13, 19.2, 20, 25.6, 30.72, 38.88 +3.3		
Load Impedance CL (pF)		15		
Operating Temperature Range Topr (°C)				
Storage Temperature Range Tstr (°C)		-40 to + 85		
Power Consumption Pcc (W)	at start	Max. 2.0 (Typ. 1.3)		
,	when stable, at +25 °C	Мах. 1.0 (Тур. 0.6)		
Frequency Tolerance Δf/fnom	at +25°C, V _{cont} = Center, before shipment		Max. 500×10-9	
Frequency/Temperature Characteristics Δf/f	at Operating Temperature Range	Max. ±10×10-9	Max. ±10×10-9	Max. ±20×10-9
Frequency/Voltage Coefficient Δf/f	Vcc ± 5%	Max. ±10×10-9 (Typ. ±5×10-9)		
	Based on frequency after 30 days	Max. ±5×10⁻⁰ / day		
Long-term Frequency Stability Δf/f	operation	Max. ±300×10 ⁻⁹ / year		
Stabilization Time (min.)	Time within specified frequency tolerance after power on at +25°C, based on frequency after 60minutes operation.	Max. 3 / within ± 100×10- ⁹		
Frequency Control Range Δf/f		V _{cont} = +1.5V±1.3V		
		Min. ±5×10-6		
Frequency Change Polarity		Positive		
Linearity (%)		Typ. ±1		
Output Voltage		LVCMOS Vol. : Max. +0.3 V Voн : Min. +3.0 V		
Symmetry (%)	at (V _{OH} + V _{OL}) / 2	45 to 55		
Specification Number		NSA3540F	NSA3540E	NSC5070A

Dimensions



Reference Value

Free

RoHS Compliant Directive 2011/65/EU

	Offset Frequency	dBc/Hz
	1 Hz	-75
Phase Noise	10 Hz	-100
(at 10 MHz)	100 Hz	-125
	1 kHz	-150
	10 kHz	-160

We offer dedicated tool for evaluation of this product

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

