



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NH14M09TA

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

Main Application

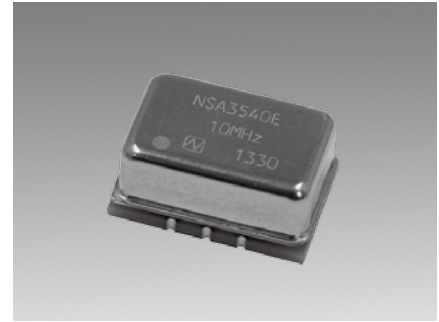
- Base stations for system mobile communications
- High-end router
- Synthesizer
- Measuring instrument
- Exchanger
- Optical transmission system

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.

Pb
Free

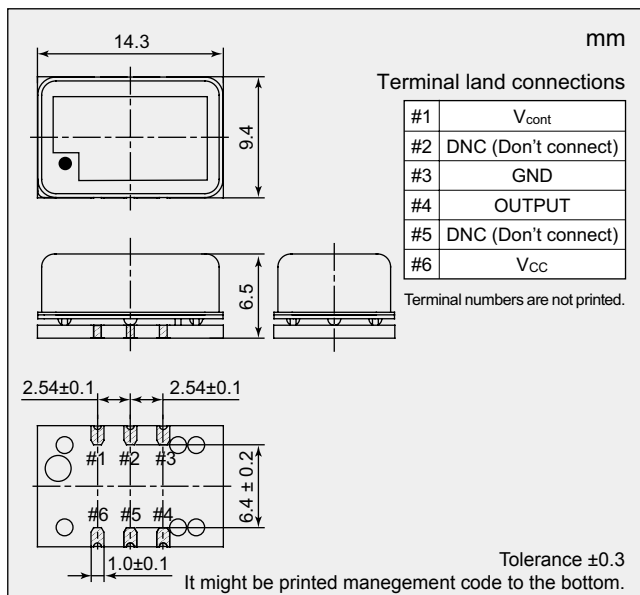
RoHS Compliant
Directive 2011/65/EU



Specifications

Item	Model	NH14M09TA		
Nominal Frequency Range (MHz)		5 to 40		
Nominal Frequency f_{nom} (MHz)		10, 12.8, 13, 19.2, 20, 25.6, 30.72, 38.88		
Supply Voltage V_{cc} (V)		+3.3		
Load Impedance C_L (pF)		15		
Operating Temperature Range T_{opr} (°C)		-20 to +70	-40 to +85	
Storage Temperature Range T_{str} (°C)		-40 to +85		
Power Consumption P_{cc} (W)	at start	Max. 2.0 (Typ. 1.3)		
	when stable, at +25 °C	Max. 1.0 (Typ. 0.6)		
Frequency Tolerance $\Delta f/f_{nom}$	at +25°C, V_{cont} = Center, before shipment	Max. 500×10^{-9}		
Frequency/Temperature Characteristics $\Delta f/f$	at Operating Temperature Range	Max. $\pm 10 \times 10^{-9}$	Max. $\pm 10 \times 10^{-9}$	Max. $\pm 20 \times 10^{-9}$
Frequency/Voltage Coefficient $\Delta f/f$	$V_{cc} \pm 5\%$	Max. $\pm 10 \times 10^{-9}$ (Typ. $\pm 5 \times 10^{-9}$)		
Long-term Frequency Stability $\Delta f/f$	Based on frequency after 30 days operation	Max. $\pm 5 \times 10^{-9}$ / day		
		Max. $\pm 300 \times 10^{-9}$ / year		
Stabilization Time (min.)	Time within specified frequency tolerance after power on at +25°C, based on frequency after 60minutes operation.	Max. 3 / within $\pm 100 \times 10^{-9}$		
Frequency Control Range $\Delta f/f$		$V_{cont} = +1.5V \pm 1.3V$		
		Min. $\pm 5 \times 10^{-6}$		
Frequency Change Polarity		Positive		
Linearity (%)		Typ. ± 1		
Output Voltage		LVCMOS V_{OL} : Max. +0.3 V V_{OH} : Min. +3.0 V		
Symmetry (%)	at $(V_{OH} + V_{OL}) / 2$	45 to 55		
Specification Number		NSA3540F	NSA3540E	NSC5070A

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

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.