

NT14M09TA

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

■ Main Application

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

■ Features

- Compact, low current consumption and excellent frequency / 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

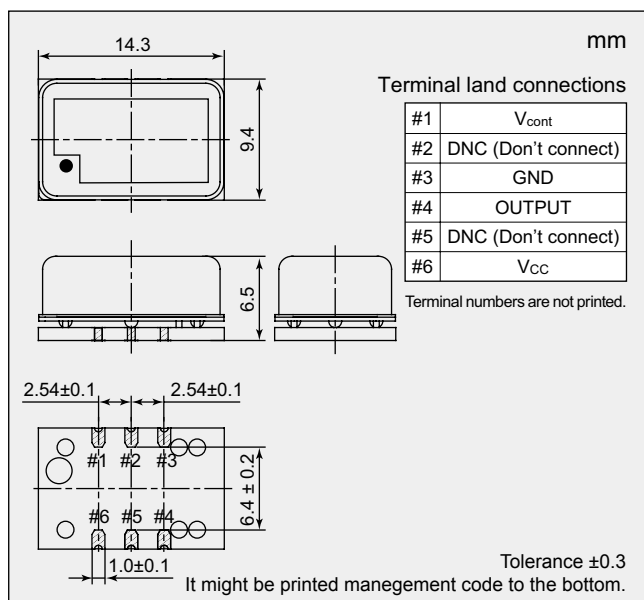
RoHS Compliant
Directive 2011/65/EU



■ Specifications

Item	Model	NT14M09TA
Nominal Frequency Range f_{nom} (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±5%
Load Impedance C_L (pF)		15
Operating Temperature Range T_{opr} (°C)		−40 to +85
Storage Temperature Range T_{str} (°C)		−40 to +85
Current Consumption I_{cc} (mA)		35
Frequency Tolerance $\Delta f/f_{nom}$	at +25°C, V_{cont} = Center, before shipment	Max. $\pm 1.0 \times 10^{-6}$
Overall Frequency Tolerance $\Delta f/f$	Includes Frequency/Temperature Characteristics : at Operating Temperature Range Frequency/voltage coefficient : $V_{cc} \pm 5\%$ Frequency/load coefficient : $C_L \pm 10\%$	Max. $\pm 100 \times 10^{-9}$
Long-term Frequency Stability $\Delta f/f$	Based on frequency after 24 hours operation	Max. $\pm 300 \times 10^{-9}/\text{year}$ (Typ. $\pm 100 \times 10^{-9}/\text{year}$)
Frequency Control Range $\Delta f/f$		$V_{cont} = +1.65 \pm 1.65V$ Max. $\pm 5.0 \times 10^{-6}$
Frequency Change Polarity		Positive
Linearity (%)		Max. ± 5 (Typ. ± 1)
Output Voltage		LVC MOS V_{OL} : Max. +0.3 V V_{OH} : Min. +3.0 V
Symmetry (%)	at $(V_{OH} + V_{OL}) / 2$	45 to 55
Specification Number		NSA3543A

■ Dimensions



■ Reference Value

Phase Noise (at 10 MHz)	Offset Frequency	dBc/Hz (typ.)
	1 Hz	−70
	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.