

NH7050SA

Oven Controlled Crystal Oscillator (OCXO)
for Fixed Communication Equipment

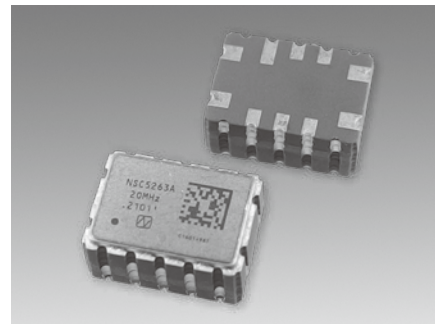
Main Application

- Base stations for system mobile communications (5G RU,AAS,4G RRH)
- IEEE1588, Synchronous Ethernet clock (SyncE)
- Optical transmission systems Stratum 3 • GNSS-DO
- Timing and synchronous measuring equipment

Features

- Compact, with a low height.
- Supports high temperature range.(+95°C)
- Hermetic sealing package for excellent environmental-proof performance.

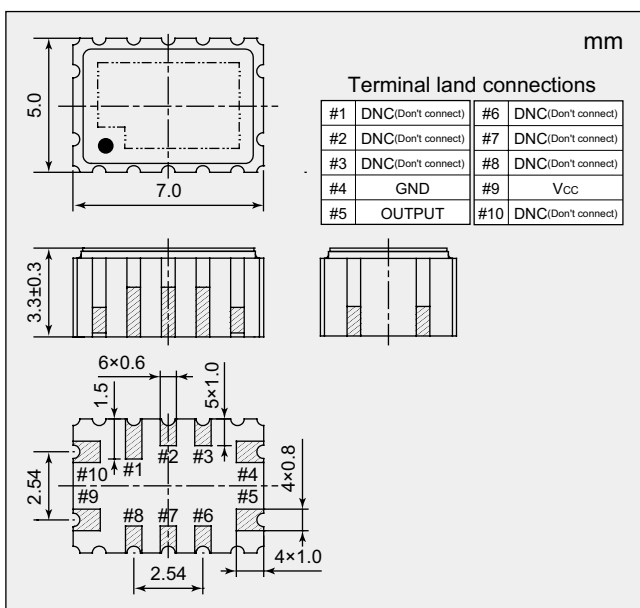
RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863



Specifications

Item	Model	NH7050SA	
Nominal Frequency f_{nom} (MHz)		10, 20, 30.72, 38.88	
Supply Voltage V_{CC} (V)		+3.3	
Load Impedance C_L (pF)		15	
Operating Temperature Range T_{opr} (°C)		-40 to +95	
Storage Temperature Range T_{str} (°C)		-40 to +95	
Power Consumption P_{CC} (W)	at start	Max. 1.5 (Typ. 1.0)	
	when stable, at +25 °C	Max. 0.6 (Typ. 0.4)	
Frequency Tolerance $\Delta f/f_{nom}$	at +25°C, before shipment	Max. 500×10^{-9}	
Frequency/Temperature Characteristics $\Delta f/f$	Reference to (FMAX + FMIN)/2	Max. $\pm 20 \times 10^{-9}$	Max. $\pm 50 \times 10^{-9}$
		Max. $\pm 0.5 \times 10^{-9}$	Max. $\pm 1 \times 10^{-9}$
Frequency Temperature Slope $\Delta f/\Delta t$ (°C)		Max. $\pm 10 \times 10^{-9}$ (Typ. $\pm 5 \times 10^{-9}$)	
Frequency/Voltage Coefficient $\Delta f/f$	$V_{CC} \pm 5\%$	Max. $\pm 3 \times 10^{-9}$ / day	
Long-term Frequency Stability $\Delta f/f$	Based on frequency after 30 days operation (20MHz)	Max. $\pm 300 \times 10^{-9}$ / year	
		Typ. 10 / within $\pm 25 \times 10^{-9}$ Max. 60 / within $\pm 25 \times 10^{-9}$	
Stabilization Time (min.)	Time within specified frequency tolerance after power on at +25°C, based on frequency after 60minutes operation.	Typ. 10 / within $\pm 25 \times 10^{-9}$ Max. 60 / within $\pm 25 \times 10^{-9}$	
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		NSC5263A	NSC5263B

Dimensions



Reference Value

Phase noise (at 10 MHz)	Offset Frequency	dBc/Hz
	1 Hz	Typ. -83
	10 Hz	Typ. -120
	100 Hz	Typ. -142
	1 kHz	Typ. -153
	10 kHz	Typ. -157
	100 kHz	Typ. -160

We offer dedicated tool (charge) 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.