

NV7050SA

Low Phase Noise Type
Voltage Controlled Crystal Oscillator (VCXO)

Main Application

For communication equipment for ISDN, SDH/SONET, WiMAX, etc. and Base-stations

Features

- Dimensions: 7.0x5.0mm
- Package: Ceramics
- Low phase noise: Typ. -127dBc/Hz (@1kHz), Typ. -156dBc/Hz (@100kHz)
in case of 122.88MHz
- Low phase jitter: Typ. 0.13ps (12kHz to 20MHz) in case of 122.88MHz
- Low current consumption: Typ. 46mA in case of 122.88MHz
- Frequency range : 100MHz to 200MHz
- Output level: LVPECL



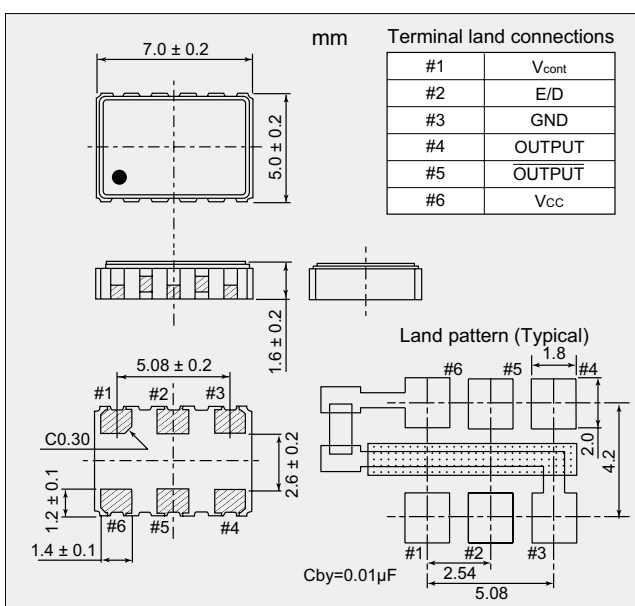
Pb Free

RoHS Compliant
Directive 2011/65/EU

Specifications

Item	Model	NV7050SA			
Nominal Frequency Range [f] (MHz)		100 ≤ F ≤ 170		170 < F ≤ 200	
Standard Frequency (MHz)		122.88, 153.6		200	
Supply Voltage [V _{cc}] (V)		+3.3 ± 10 %		+3.3 ± 10 %	
Current Consumption (mA)		Max. 65		Max. 65	
Output Level		LVPECL		LVPECL	
Symmetry (%)		45 to 55 (V _{cc} -1.3V)		45 to 55 (V _{cc} -1.3V)	
Output Load Condition (Ω)		50 (V _{cc} -2.0V)		50 (V _{cc} -2.0V)	
Operating Temperature Range (°C)		-40 to +85		-40 to +85	
Storage Temperature Range (°C)		-55 to +125		-55 to +125	
Overall Frequency Tolerance		Max. ±50 × 10 ⁻⁶		Max. ±50 × 10 ⁻⁶	
Frequency Control Range / Control Voltage [V _{cont}]		Min. ±100 × 10 ⁻⁶ / +1.65 ± 1.65 V		Min. ±80 × 10 ⁻⁶ / +1.65 ± 1.65 V	
Frequency Change Polarity		Positive		Positive	
Enable / Disable function		Enable Low Level Type	Enable High Level Type	Enable Low Level Type	Enable High Level Type
Specification Number		NSA3618A	NSA3619A	NSA3644A	NSA3645A

Dimensions



List of Enable / Disable function

Enable Low Level Type

Input (#2)	Output (#4)	Output (#5)
High Level (Min. 0.7 V _{cc})	Disable	Disable
Low Level (Max. 0.3 V _{cc}) or OPEN	Enable	Enable

Enable High Level Type

Input (#2)	Output (#4)	Output (#5)
High Level (Min. 0.7 V _{cc}) or OPEN	Enable	Enable
Low Level (Max. 0.3 V _{cc})	Disable	Disable

Reference Value

Phase noise (at 122.88MHz)	Offset Frequency	dBc / Hz
	10Hz	Typ. -70
	100Hz	Typ. -100
	1kHz	Typ. -127
	10kHz	Typ. -148
	100kHz	Typ. -156
1MHz	Typ. -156	

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