

NV13M09WN

Voltage Controlled Crystal Oscillator (VCXO)

Main Application

For basestation

Features

- SMD crystal oscillator with a glass epoxy circuit board and a metal lid.
- Frequency range : 75 to 800MHz. A wide frequency band. (PECL)
- Low jitter(Max. 1ps)
- Fundamental crystal units are designed. (Frequency Multiplying Model from 210MHz)
- Enable/Disable function is optional.
- Low power supply voltage (+3.3 V)

Pb Free

RoHS Compliant
Directive 2011/65/EU

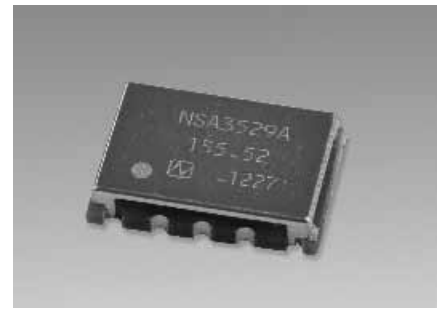
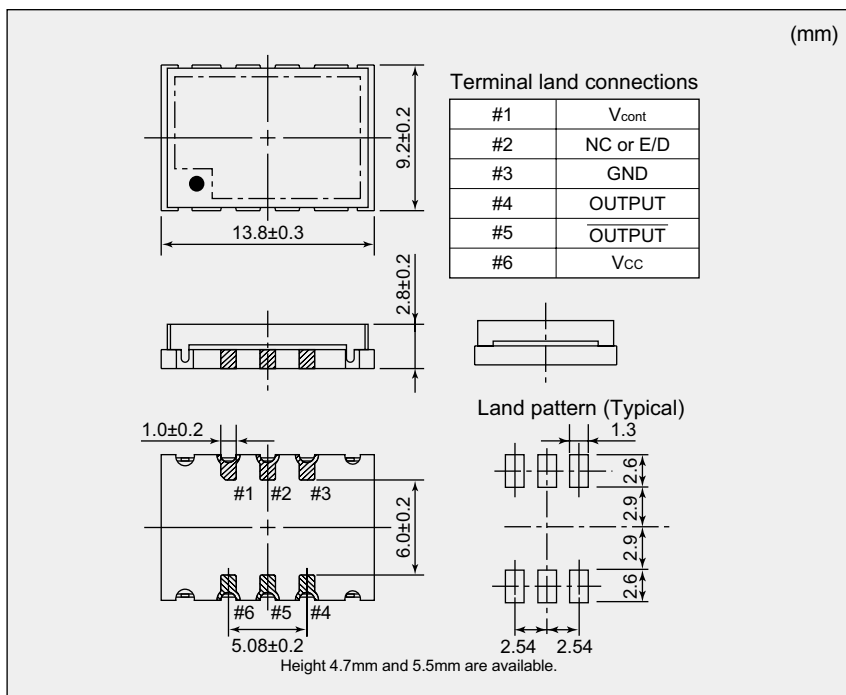
Specifications

Item	Model	NV13M09WN
Nominal Frequency Range (MHz)		$75 \leq f < 800$
Supply Voltage [V _{CC}](V)		+3.3V±10%
Control Voltage [V _{cont}](V)		+1.65±1.5
Current Consumption (mA)		Max. 65
Output Voltage		V _{OH} : Min. V _{CC} -1.02 V , V _{OL} : Max. V _{CC} -1.60 V
Symmetry (%)		45 to 55 (at 50%V _{out})
Rise Time / Decay (Fall) Time		Max.1ns (20% to 80%)
Output Load Condition (PECL)		50Ω (V _{CC} -2V)
Operating Temperature Range (°C)		-40 to +85
Storage Temperature Range (°C)		-55 to +125
Overall Frequency Tolerance (*1)		Max. ±50×10 ⁻⁶
Frequency Control Range		Min. ±100×10 ⁻⁶
Frequency Change Polarity		Positive
Linearity of Frequency Modulation Deviation		Max. 5%
Input Impedance		Min. 100kΩ
Phase Jitter		Max. 1ps (12kHz to 20MHz)

*Please specify products with or without Enable/Disable function.

(*1) Overall frequency tolerance includes "Frequency/temperature characteristics", "Frequency tolerance", "Frequency/voltage coefficient", "Frequency/load coefficient" and "Long-term frequency stability(1 year)".

Dimensions



List of Enable / Disable function

Input (#2)
Low (V _{IL} ≤ V _{CC} -1.5V) or NC
High (V _{IH} ≥ V _{CC} -1.1V)

Output (#4, #5)
Nominal frequency Output
High Z

Specification Number

Frequency (MHz)	Ordering Code	
	Without Enable/Disable function	With Enable/Disable function
100	NSA3529A	NSA3529C
106.25	NSA3529A	NSA3529C
122.88	NSA3529A	NSA3529C
125	NSA3529A	NSA3529C
155.52	NSA3529A	NSA3529C
156.25	NSA3529A	NSA3529C
160	NSA3529A	NSA3529C
167.3316	NSA3529A	NSA3529C
184.32	NSA3529A	NSA3529C
200	NSA3529A	NSA3529C
245.76	NSA3529B	NSA3529D
320	NSA3529B	NSA3529D
368.64	NSA3529B	NSA3529D
491.52	NSA3529B	NSA3529D
622.08	NSA3529B	NSA3529D
640	NSA3529B	NSA3529D
644.5313	NSA3529B	NSA3529D
666.5143	NSA3529B	NSA3529D
669.3266	NSA3529B	NSA3529D
672.1627	NSA3529B	NSA3529D
693.483	NSA3529B	NSA3529D
696.4215	NSA3529B	NSA3529D
698.8123	NSA3529B	NSA3529D
764.4203	NSA3529B	NSA3529D
777.6	NSA3529B	NSA3529D
792.0087	NSA3529B	NSA3529D
794.728	NSA3529B	NSA3529D
800	NSA3529B	NSA3529D