

Model Name NV13M09WJ

Voltage-Controlled Crystal Oscillator (VCXO) NV13M09W Series

Main Application

For basestation

Features

- SMD crystal oscillator with a glass epoxy circuit board and a metal lid.
- Frequency range : 60 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 2002/95/EC

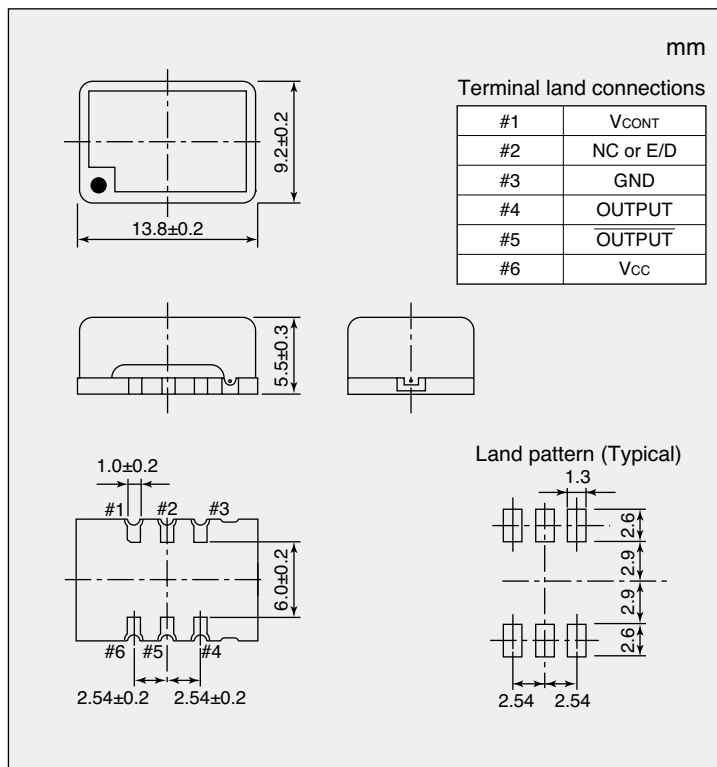


Specifications

Item	Model	NV13M09WJ
Nominal frequency range (MHz)		$60 \leq f < 800$
Supply voltage [Vcc](V)		$+3.3V \pm 10\%$
Control voltage(V)		$+1.65 \pm 1.5$
Current consumption (mA)		Max. 65
Output voltage		$V_{OH} : \text{Min. } V_{CC} - 1.02 \text{ V}, V_{OL} : \text{Max. } V_{CC} - 1.60 \text{ V}$
Symmetry (%)		45 to 55 (50%Vout)
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		Max. $\pm 50 \times 10^{-6}$
Frequency control range		Min. $\pm 100 \times 10^{-6}$
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.

Dimensions



■ List of Ordering Codes

Ordering Code depends on with or without Enable/Disable function.

Frequency (MHz)	Ordering Code	
	Without Enable/Disable function	With Enable/Disable function
100	NV13M09WJ-100M-NSA3472A	NV13M09WJ-100M-NSA3472C
106.25	NV13M09WJ-106.25M-NSA3472A	NV13M09WJ-106.25M-NSA3472C
122.88	NV13M09WJ-122.88M-NSA3472A	NV13M09WJ-122.88M-NSA3472C
125	NV13M09WJ-125M-NSA3472A	NV13M09WJ-125M-NSA3472C
155.52	NV13M09WJ-155.52M-NSA3472A	NV13M09WJ-155.52M-NSA3472C
156.25	NV13M09WJ-156.25M-NSA3472A	NV13M09WJ-156.25M-NSA3472C
167.3316	NV13M09WJ-167.3316M-NSA3472A	NV13M09WJ-167.3316M-NSA3472C
184.32	NV13M09WJ-184.32M-NSA3472A	NV13M09WJ-184.32M-NSA3472C
200	NV13M09WJ-200M-NSA3472A	NV13M09WJ-200M-NSA3472C
245.76	NV13M09WJ-245.76M-NSA3472B	NV13M09WJ-245.76M-NSA3472D
368.64	NV13M09WJ-368.64M-NSA3472B	NV13M09WJ-368.64M-NSA3472D
491.52	NV13M09WJ-491.52M-NSA3472B	NV13M09WJ-491.52M-NSA3472D
622.08	NV13M09WJ-622.08M-NSA3472B	NV13M09WJ-622.08M-NSA3472D
644.5313	NV13M09WJ-644.5313M-NSA3472B	NV13M09WJ-644.5313M-NSA3472D
666.5143	NV13M09WJ-666.5143M-NSA3472B	NV13M09WJ-666.5143M-NSA3472D
669.3266	NV13M09WJ-669.3266M-NSA3472B	NV13M09WJ-669.3266M-NSA3472D
693.483	NV13M09WJ-693.483M-NSA3472B	NV13M09WJ-693.483M-NSA3472D
777.6	NV13M09WJ-777.6M-NSA3472B	NV13M09WJ-777.6M-NSA3472D
800	NV13M09WJ-800M-NSA3472B	NV13M09WJ-800M-NSA3472D

The above frequencies are NDK's standard frequencies.
Frequencies other than the above are available.
Feel free to contact our sales representatives.