

Model Name NV13M09WA

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 : 7 to 125MHz. (CMOS)
- Fundamental crystal units are designed.(Frequency Multiplying Model from 210MHz)
- Stand-by function is optional.
- Low power supply voltage(3.3 V)

Pb Free

RoHS Compliant
Directive 2002/95/EC

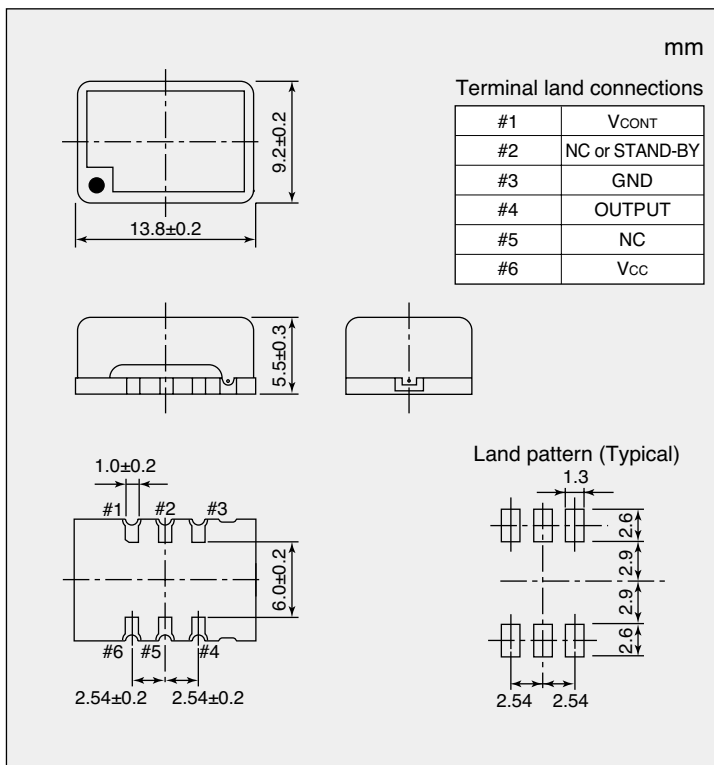


■ Specifications

Item	Model		
	NV13M09WA		
Nominal frequency range (MHz)	7 to 25	25 to 75	75 to 125
Supply voltage [Vcc](V)	+3.3V±10%		
Control voltage(V)	+1.65±1.5		
Current consumption (mA)	Max. 15	Max. 20	Max. 30
Output voltage	V _{OH} : Min. 90% V _{CC} , V _{OL} : Max. 10% V _{CC}		
Symmetry (%)	45 to 55 (50%V _{CC})		
Rise time / Decay(fall)time	Max. 8ns(10% to 90%V _{CC})	Max. 5ns(10% to 90%V _{CC})	Max. 3ns(10% to 90%V _{CC})
Output load condition (CMOS)	15pF		
Operating temperature Range (°C)	-40 to +85		
Storage temperature range (°C)	-55 to +125		
Overall frequency tolerance	Max. ±45×10 ⁻⁶		
Frequency control range	Min. ±100×10 ⁻⁶		
Frequency change polarity	Positive		
Linearity of frequency modulation deviation	Max. 5%		
Input impedance	Min. 100kΩ		

*Please specify products with or without Stand-by function.

■ Dimensions



■ List of Ordering Codes

Ordering Code depends on with or without Stand-by function.

Frequency (MHz)	Ordering Code	
	Without Stand-by function	With Stand-by function
19.44	NV13M09WA-19.44M-NSA3471A	NV13M09WA-19.44M-NSA3471D
30.72	NV13M09WA-30.72M-NSA3471B	NV13M09WA-30.72M-NSA3471E
38.88	NV13M09WA-38.88M-NSA3471B	NV13M09WA-38.88M-NSA3471E
61.44	NV13M09WA-61.44M-NSA3471B	NV13M09WA-61.44M-NSA3471E
77.76	NV13M09WA-77.76M-NSA3471C	NV13M09WA-77.76M-NSA3471F
100	NV13M09WA-100M-NSA3471C	NV13M09WA-100M-NSA3471F
122.88	NV13M09WA-122.88M-NSA3471C	NV13M09WA-122.88M-NSA3471F
125	NV13M09WA-125M-NSA3471C	NV13M09WA-125M-NSA3471F

The above frequencies are NDK's standard frequencies.

Frequencies other than the above are available.

Feel free to contact our sales representatives.