

Model Name NV11M09YA

Voltage-Controlled Crystal Oscillator (VCXO) NV11M09Y Series

■ Main Application

For , SDH-, and SONET-related equipment.

■ Features

- Frequency range : 75 to 800MHz. A wide frequency band. (PECL)
- Fundamental crystal units are designed.(Frequency Multiplying Model from 210MHz)
- Low jitter(Max. 1ps)
- Enable/Disable function is optional.
- Low power supply voltage(+3.3 V)

Pb Free

RoHS Compliant
Directive 2011/65/EU



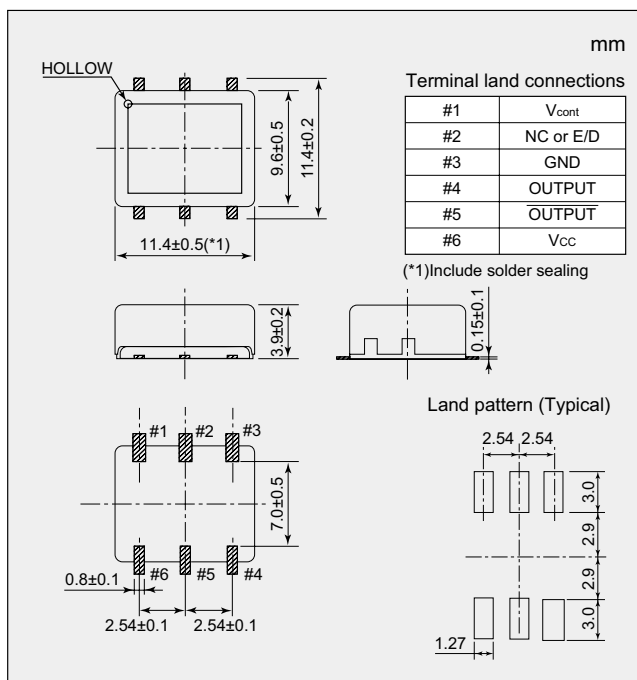
■ Specifications

Item	Model	NV11M09YA
Nominal frequency range (MHz)		75 to 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 (TTL)		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)	Output (#4, #5)
Low (V _{IL} ≤ V _{CC} -1.5V) or NC	Nominal frequency Output
High (V _{IH} ≥ V _{CC} -1.1V)	High Z

■ 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	NV11M09YA-100M-NSA3532A	NV11M09YA-100M-NSA3532C
106.25	NV11M09YA-106.25M-NSA3532A	NV11M09YA-106.25M-NSA3532C
122.88	NV11M09YA-122.88M-NSA3532A	NV11M09YA-122.88M-NSA3532C
125	NV11M09YA-125M-NSA3532A	NV11M09YA-125M-NSA3532C
155.52	NV11M09YA-155.52M-NSA3532A	NV11M09YA-155.52M-NSA3532C
156.25	NV11M09YA-156.25M-NSA3532A	NV11M09YA-156.25M-NSA3532C
160	NV11M09YA-160M-NSA3532A	NV11M09YA-160M-NSA3532C
167.3316	NV11M09YA-167.3316M-NSA3532A	NV11M09YA-167.3316M-NSA3532C
184.32	NV11M09YA-184.32M-NSA3532A	NV11M09YA-184.32M-NSA3532C
200	NV11M09YA-200M-NSA3532A	NV11M09YA-200M-NSA3532C
245.76	NV11M09YA-245.76M-NSA3532B	NV11M09YA-245.76M-NSA3532D
320	NV11M09YA-320M-NSA3532B	NV11M09YA-320M-NSA3532D
368.64	NV11M09YA-368.64M-NSA3532B	NV11M09YA-368.64M-NSA3532D
491.52	NV11M09YA-491.52M-NSA3532B	NV11M09YA-491.52M-NSA3532D
622.08	NV11M09YA-622.08M-NSA3532B	NV11M09YA-622.08M-NSA3532D
640	NV11M09YA-640M-NSA3532B	NV11M09YA-640M-NSA3532D
644.5313	NV11M09YA-644.5313M-NSA3532B	NV11M09YA-644.5313M-NSA3532D
666.5143	NV11M09YA-666.5143M-NSA3532B	NV11M09YA-666.5143M-NSA3532D
669.3266	NV11M09YA-669.3266M-NSA3532B	NV11M09YA-669.3266M-NSA3532D
672.1627	NV11M09YA-672.1627M-NSA3532B	NV11M09YA-672.1627M-NSA3532D
693.483	NV11M09YA-693.483M-NSA3532B	NV11M09YA-693.483M-NSA3532D
696.4215	NV11M09YA-696.4215M-NSA3532B	NV11M09YA-696.4215M-NSA3532D
698.8123	NV11M09YA-698.8123M-NSA3532B	NV11M09YA-698.8123M-NSA3532D
764.4203	NV11M09YA-764.4203M-NSA3532B	NV11M09YA-764.4203M-NSA3532D
777.6	NV11M09YA-777.6M-NSA3532B	NV11M09YA-777.6M-NSA3532D
792.0087	NV11M09YA-792.0087M-NSA3532B	NV11M09YA-792.0087M-NSA3532D
794.728	NV11M09YA-794.728M-NSA3532B	NV11M09YA-794.728M-NSA3532D
800	NV11M09YA-800M-NSA3532B	NV11M09YA-800M-NSA3532D

The above frequencies are NDK's standard frequencies.

Frequencies other than the above are available. Feel free to contact our sales representatives.