

## NV11M09YA

Voltage Controlled Crystal Oscillator (VCXO)

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

### List of Enable / Disable function

Input (#2)
Low (V <sub>IL</sub> ≤ V <sub>CC</sub> -1.5V) or NC
High (V <sub>IH</sub> ≥ V <sub>CC</sub> -1.1V)

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

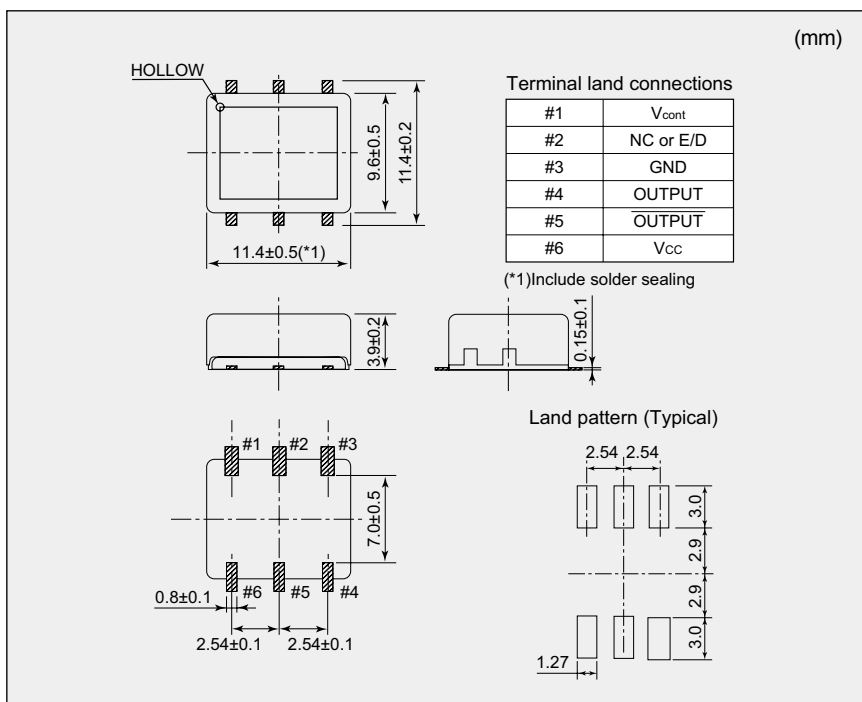
### Specification Number

Frequency (MHz)	Ordering Code	
	Without Enable/Disable function	With Enable/Disable function
100	NSA3532A	NSA3532C
106.25	NSA3532A	NSA3532C
122.88	NSA3532A	NSA3532C
125	NSA3532A	NSA3532C
155.52	NSA3532A	NSA3532C
156.25	NSA3532A	NSA3532C
160	NSA3532A	NSA3532C
167.3316	NSA3532A	NSA3532C
184.32	NSA3532A	NSA3532C
200	NSA3532A	NSA3532C
245.76	NSA3532B	NSA3532D
320	NSA3532B	NSA3532D
368.64	NSA3532B	NSA3532D
491.52	NSA3532B	NSA3532D
622.08	NSA3532B	NSA3532D
640	NSA3532B	NSA3532D
644.5313	NSA3532B	NSA3532D
666.5143	NSA3532B	NSA3532D
669.3266	NSA3532B	NSA3532D
672.1627	NSA3532B	NSA3532D
693.483	NSA3532B	NSA3532D
696.4215	NSA3532B	NSA3532D
698.8123	NSA3532B	NSA3532D
764.4203	NSA3532B	NSA3532D
777.6	NSA3532B	NSA3532D
792.0087	NSA3532B	NSA3532D
794.728	NSA3532B	NSA3532D
800	NSA3532B	NSA3532D

\*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



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