

## Model Name NV13M08YM

Voltage-Controlled Crystal Oscillator (VCXO) NV13M08Y Series

### Main Application

For , SDH-, and SONET-related equipment.

### Features

- A J lead-mount type SMD crystal oscillator.
- Frequency range : 7 to 125MHz. (CMOS)
- Fundamental crystal units are designed.
- Stand-by function is optional.
- Low power supply voltage(3.3 V)

Pb Free

RoHS Compliant  
Directive 2002/95/EC

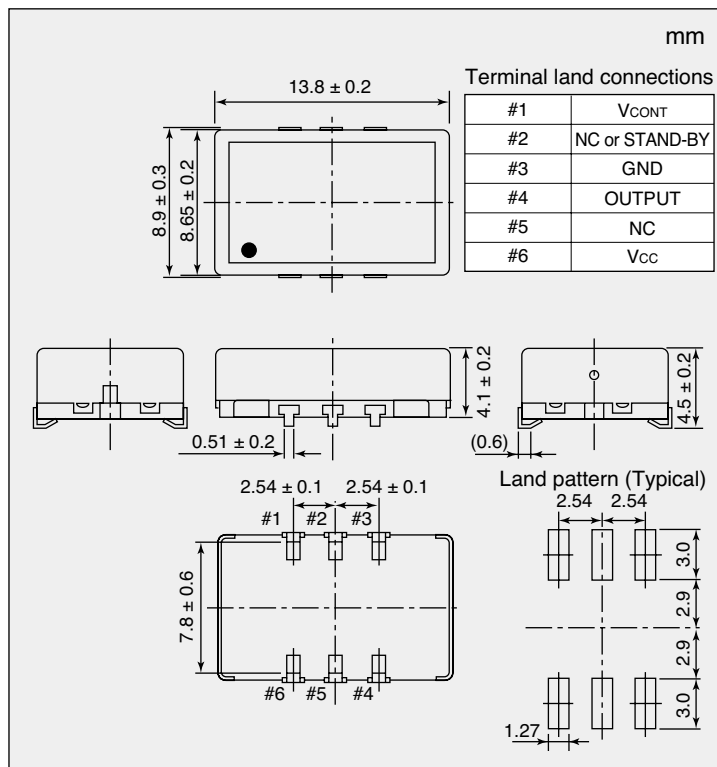


### Specifications

Item	Model	NV13M08YM		
Nominal frequency range (MHz)		7 to 25	25 to 75	75 to 125
Supply voltage [Vcc](V)		+3.3 ±10%		
Control voltage(V)		+1.65±1.5V		
Current consumption (mA)		Max. 15	Max. 20	Max. 30
Output voltage		V <sub>OH</sub> : Min. 90% V <sub>CC</sub> , V <sub>OL</sub> : Max. 10% V <sub>CC</sub>		
Symmetry (%)		45 to 55 (at 50 % V <sub>CC</sub> )		
Rise time / Decay (fall) time		Max. 8ns(10% to 90% V <sub>CC</sub> )	Max. 5ns(10% to 90% V <sub>CC</sub> )	Max. 3ns(10% to 90% V <sub>CC</sub> )
Output load condition (TTL)		15pF		
Operating temperature Range (°C)		-40 to +85		
Storage temperature range (°C)		-55 to +125		
Overall frequency tolerance		Max. ±45 × 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		

\*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	NV13M08YM-19.44M-NSA3473A	NV13M08YM-19.44M-NSA3473D
38.88	NV13M08YM-38.88M-NSA3473B	NV13M08YM-38.88M-NSA3473E
77.76	NV13M08YM-77.76M-NSA3473C	NV13M08YM-77.76M-NSA3473F
100	NV13M08YM-100M-NSA3473C	NV13M08YM-100M-NSA3473F
122.88	NV13M08YM-122.88M-NSA3473C	NV13M08YM-122.88M-NSA3473F
125	NV13M08YM-125M-NSA3473C	NV13M08YM-125M-NSA3473F

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