

# Crystal oscillator for 5G

## NY13M09WA

Voltage Controlled SAW Oscillator (VCSO)

### Main Application

Optical communication equipment (SONET, SDH, Ethernet) (5G)

### Features

- Low phase noise and low jitter. (Max. 50fs)
- Dimensions : 13.8×9.2mm
- A leadless type
- Low height type (H : 2.6mm)



Pb Free

RoHS Compliant  
Directive 2011/65/EU  
Directive (EU) 2015/863

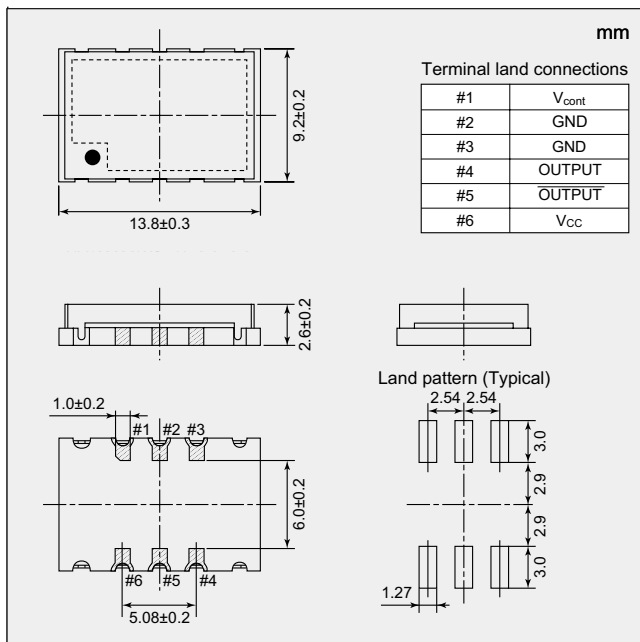
### Specifications

Item	Model	NY13M09WA
Nominal Frequency Range (MHz)		1680 to 2200
Standard Frequency (MHz)		1747.031, 1986.819
Supply Voltage [V <sub>cc</sub> ] (V)		+3.3 ± 5 %
Control Voltage [V <sub>cont</sub> ] (V)		0 to 3.3
Current Consumption (mA)		Max. 100
Output Specification		LVPECL (Complementary)
Symmetry (%)		40 to 60
Output Load Condition (Ω)		50 (V <sub>cc</sub> - 2.0 V)
Operating Temperature Range (°C)		-10 to +85
Storage Temperature Range (°C)		-40 to +85
Absolute Pull Range [APR] (*)		Max. ± 50 × 10 <sup>-6</sup>
Frequency Change Polarity		Positive

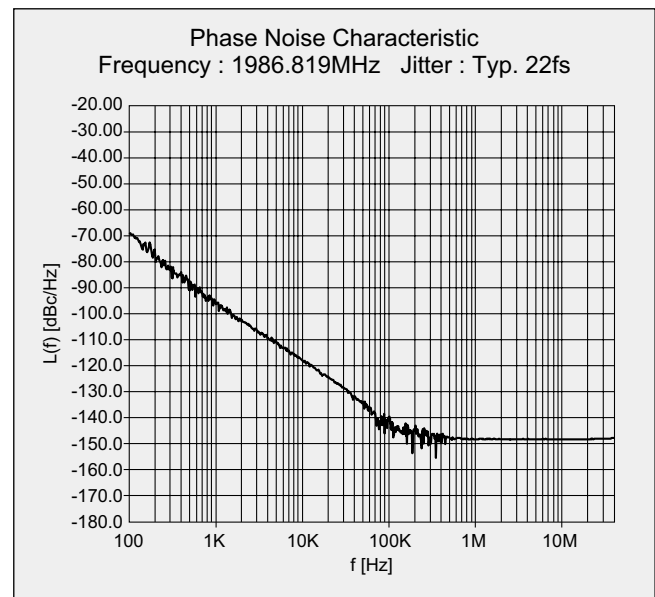
(\*) Absolute Pull Range[APR] is difference value by subtracting Overall Frequency Tolerance from Frequency Pulling Range.

\* Please do not reflow the board upside down after mounting this product. (The product itself or the cover may fall off.)

### Dimensions



### Phase Noise Characteristic



### Contact Us

Standard catalog specifications are listed for the products listed. Custom is available upon request.  
Mail : 5g-sl@ndk.com