

NV13M09WS / NV13M09WT Voltage Controlled Crystal Oscillator (VCXO)

Main Application

Personal Radio Base Station and 5G Base Station

Features

- Low Phase Noise
(Typ. -144dBc/Hz, Typ. -169dBc/Hz@1MHz)
- Low Jitter Performance : Typ. 25 fsec
- Dimensions : 13.8×9.2mm
- A leadless type



Pb Free

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

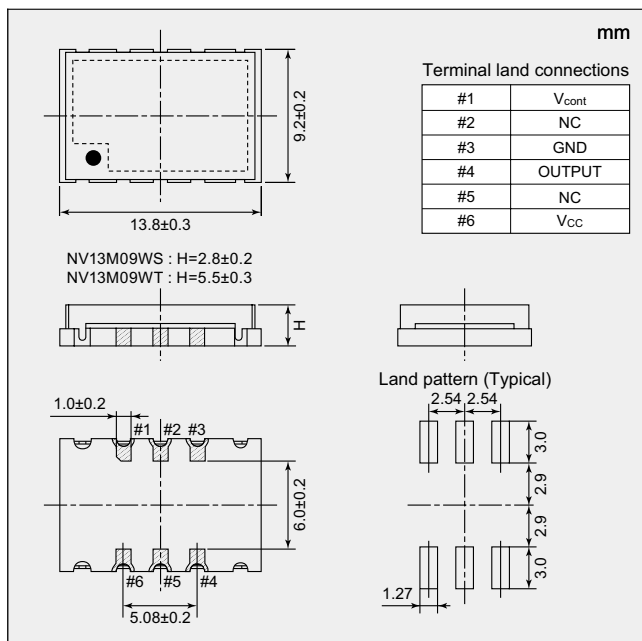
Specifications

Item	Model	NV13M09WS	NV13M09WT
Nominal Frequency Range (MHz)		100 to 125	100 to 125
Standard Frequency (MHz)		100, 122.88, 125	100, 122.88, 125
Supply Voltage [V _{cc}] (V)		3.3±5%	3.3±5%
Control Voltage [V _{cont}] (V)		0 to 3.3	0 to 3.3
Current Consumption (mA)		Max. 30	Max. 30
Output Specification		CMOS	CMOS
Symmetry (%)		40 to 60	40 to 60
Output Load Condition		15pF	15pF
Operating Temperature Range (°C)		0 to +70 -40 to +85	0 to +70 -40 to +85
Storage Temperature Range (°C)		-40 to +85	-40 to +85
Absolute Pull Range [APR] (*)		Min. ±5×10 ⁻⁶	Min. ±5×10 ⁻⁶
Frequency Change Polarity		Positive	Positive
Phase Jitter (122.88MHz)		Typ. 25 fsec (12kHz to 20MHz)	Typ. 25 fsec (12kHz to 20MHz)

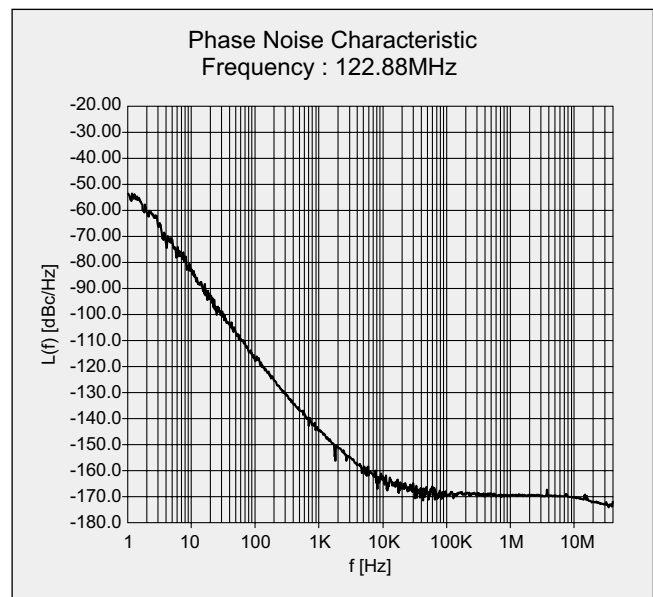
(*) Absolute Pull Range[APR] is difference value by subtracting Overall Frequency Tolerance from Frequency Pull-ability. (Overall Frequency Tolerance includes "Frequency/Temperature Characteristics", "Frequency Tolerance", "Frequency/Voltage Coefficient", and "Long-term Frequency Stability (5 years)".)

* 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



Specification Number

Model	Operating Temperature Range (°C)	
	0 to +70	-40 to +85
NV13M09WS (H : 2.8mm)	NSC5114A	NSC5114B
NV13M09WT (H : 5.5mm)	NSC5115A	NSC5115B

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