

Crystal Oscillator

Model Name NV11M09YA

Dual-Rate Voltage-Controlled Crystal Oscillator (DUAL RATE-VCXO®)
NV11M09Y Series

Main Application

For SONET-, SDH-, and GbEthernet-related equipment

Features

- Two frequency is selected by external input: 622.08 MHz or FEC rate.
- Output Voltage : LVPECL
- A surface-mount crystal oscillator.
- Complies with the RoHS Directive.



Pb Free

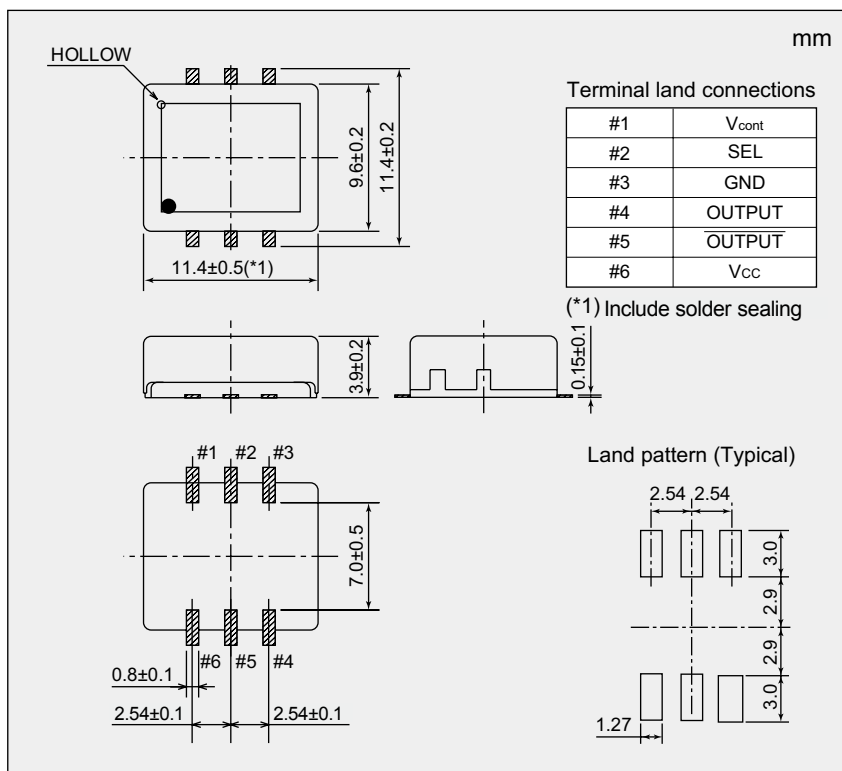
RoHS Compliant
Directive 2011/65/EU

Specifications

Item	Model	NV11M09YA
Nominal frequency range (MHz)		622.08 / 644.5313, 622.08 / 666.5143, 622.08 / 669.3266
Supply voltage [V _{CC}] (V)		+3.3 ± 5 %
Current consumption (mA)		Max. 100
Output voltage		LVPECL (Complementary)
Symmetry (%)		40 to 60 (V _{CC} - 1.3 V)
Output load condition (LVPECL) (Ω)		50 (V _{CC} - 2.0 V)
Operating temperature range (°C)		-10 to +70
Storage temperature range (°C)		-55 to +125
Overall frequency tolerance (*1)		Max. ± 50 × 10 ⁻⁶
Frequency control range		Min. ± 100 × 10 ⁻⁶ / + 1.65 ± 1.5 V
Frequency change polarity		Positive

(*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 Ordering Codes

Frequency (MHz)	Ordering Code
f1: 622.08 f2: 644.5313	NV11M09YA-622M644M-NSA3533A
f1: 622.08 f2: 666.5143	NV11M09YA-622M666M-NSA3533B
f1: 622.08 f2: 669.3266	NV11M09YA-622M669M-NSA3533C

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

Function Table

CONT. (#2)	OUTPUT (#4,#5)
L	FEC Rate
H	622.08 MHz

* High Level : Min. 2.0 V
Low Level : Max. 0.4 V