

# Crystal Oscillator

## Model Name NV3225SA

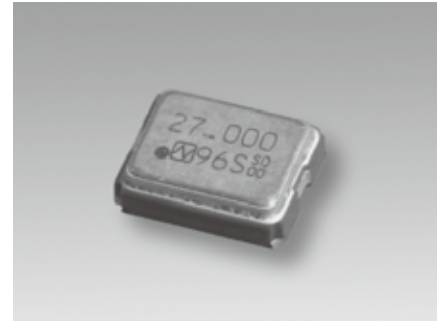
Voltage-Controlled Crystal Oscillator (VCXO)

### Main Application

For Mobile TV, DSC, Navigation Device, DVD, Blu-ray, etc

### Features

- A compact and thin. : 3.2 x 2.5 x H 0.9 mm.
- Frequency control range : Min.  $\pm 100 \times 10^{-6}$
- Operating temperature range : -40 to +85°C
- Output level : CMOS
- Supports low current consumption.



Pb Free

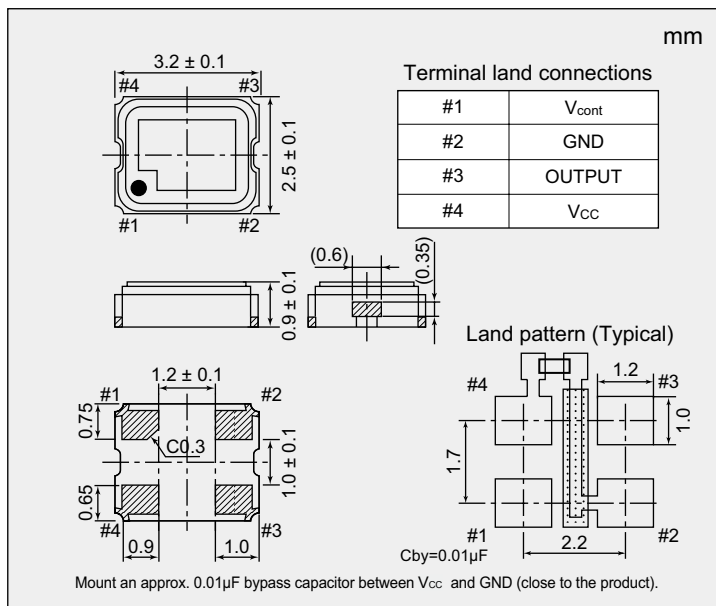
RoHS Compliant  
Directive 2011/65/EU

### Specifications

Item	Model	NV3225SA						
Nominal frequency (MHz)		1.25 ≤ F < 10	10 ≤ F < 20	20 ≤ F < 30	30 ≤ F ≤ 40	40 < F < 50	50 ≤ F ≤ 65	65 < F ≤ 80
Supply voltage [V <sub>cc</sub> ] (V)		+3.3 ± 10 %						
Current consumption (mA)		Max. 3	Max. 4.5	Max. 5	Max. 6	Max. 9	Max. 10	Max. 11
Output level		CMOS						
Symmetry (%)		45 to 55						
Output load condition		15 pF						
Operating temperature range (°C)		-40 to +85						
Storage temperature range (°C)		-55 to +125						
Overall frequency tolerance		Max. $\pm 50 \times 10^{-6}$						
Frequency control range / Control voltage [V <sub>cont</sub> ]		Min. $\pm 100 \times 10^{-6}$ / + 1.65 ± 1.65 V						
Frequency change polarity		Positive						
Phase noise (dBc / Hz)	F <sub>out</sub> ±1kHz (typ.)	-145	-140	-135	-126	-119		
	F <sub>out</sub> ±100kHz (typ.)	-160	-156	-154	-151	-146		
Number for specifying an order		NSA3457A						

\*This Product does not have Stand-by function.

### Dimensions



### How to Specify an Order

When ordering our products, specify them with an "Ordering Code" that consists of the following:

Model name – Frequency (up to 9 digits) M – Number for specifying an order

Example: NV3225SA-27M-NSA3457A

If you have any queries concerning our standard frequencies and numbers for specifying orders, please contact our sales representatives or visit our homepage (<http://www.ndk.com/>)