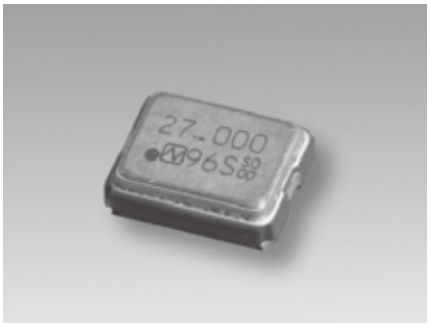
Crystal Oscillator

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. ±100×10^{-6}
- Operating temperature range : −40 to +85°C
- Output level : CMOS
- Supports low current consumption.

Pb Free

RoHS Compliant
Directive 2011/65/EU

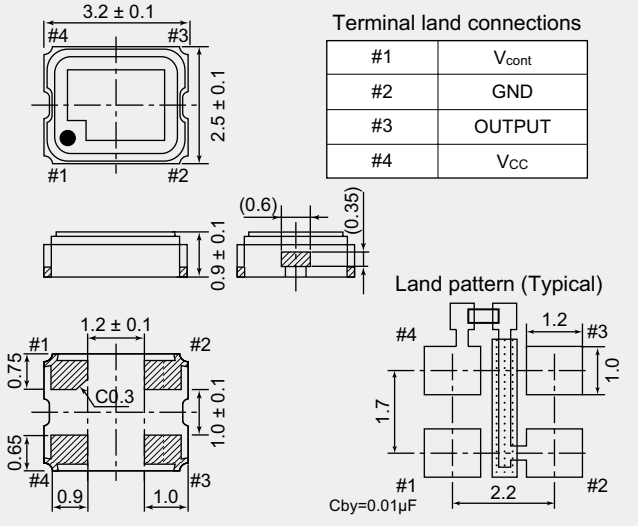
■ Specifications

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_{CC}] (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. ±50 × 10^{-6}						
Frequency control range / Control voltage [V_{cont}]		Min. ±100 × 10^{-6} / + 1.65 ± 1.65 V						
Frequency change polarity		Positive						
Phase noise (dBc / Hz)	Fout ±1kHz (typ.)	-145	-140	-135		-126	-119	
	Fout ±100kHz (typ.)	-160	-156	-154		-151	-146	
Number for specifying an order		NSA3457A						

*This Product does not have Stand-by function.

■ Dimensions

mm



Terminal land connections

#1	V_{cont}
#2	GND
#3	OUTPUT
#4	V_{CC}

Mount an approx. 0.01µF bypass capacitor between V_{CC} and GND (close to the product).

■ 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/)