



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Crystal Oscillator

## NV2520SA / NV3225SA

Voltage Controlled Crystal Oscillator (VCXO)

### Main Application

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

### Features

- A compact and thin.
- Frequency control range : Min.  $\pm 100 \times 10^{-6}$
- Operating temperature range :  $-40$  to  $+85^\circ\text{C}$
- Output Specification : CMOS
- Supports low current consumption.



Model Name : NV2520SA



Model Name : NV3225SA

Pb Free

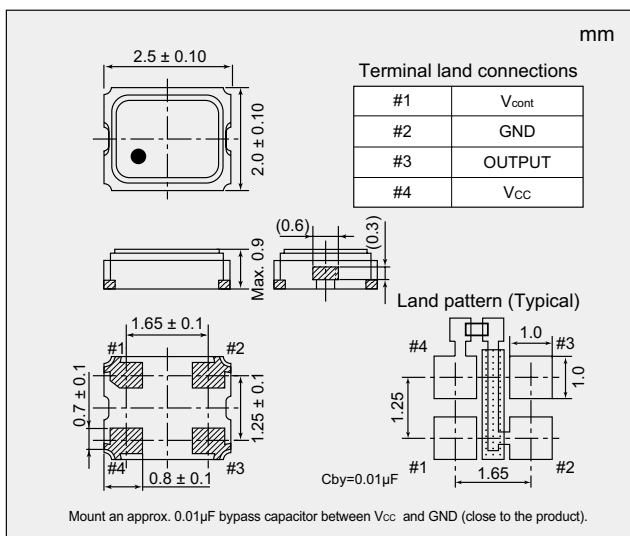
RoHS Compliant  
Directive 2011/65/EU

### Specifications

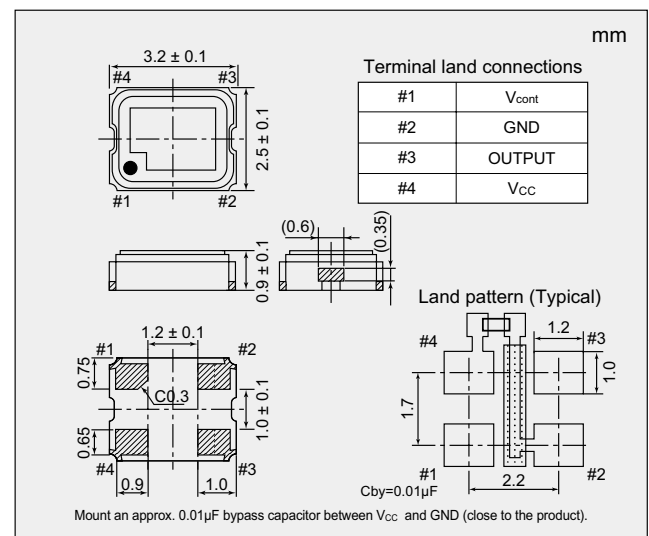
Item	Model	NV2520SA / NV3225SA						
Nominal Frequency (MHz)		$1.25 \leq F < 10$	$10 \leq F < 20$	$20 \leq F < 30$	$30 \leq F \leq 40$	$40 < F < 50$	$50 \leq F \leq 65$	$65 < F \leq 80$
Supply Voltage [V <sub>cc</sub> ] (V)		$+3.3 \pm 10\%$						
Current Consumption (mA)		Max. 3	Max. 4.5	Max. 5	Max. 6	Max. 9	Max. 10	Max. 11
Output Specification		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. $\pm 100 \times 10^{-6}$ / $+ 1.65 \pm 1.65$ V						
Frequency Change Polarity		Positive						
Phase Noise (dBc / Hz)	Fout $\pm 1$ kHz (typ.)	-145	-140	-135	-126	-119		
	Fout $\pm 100$ kHz (typ.)	-160	-156	-154	-151	-146		

### Dimensions

Model Name : NV2520SA



Model Name : NV3225SA



### Specification Number

Model Name	NV2520SA	NV3225SA
Specification Number	NSA3458A	NSA3457A

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