



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

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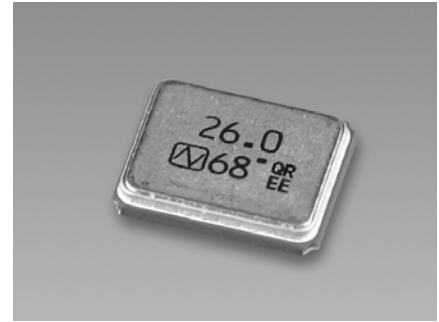


NX3225SA For OA / AV / Short-range Wireless

■ Features

A small surface-mount type crystal unit, especially suited for small-sizing requirements.

- Compact and thin. (3.2 × 2.5 × 0.55 mm typ.)
- Excellent environmental characteristics, including heat and shock resistance.
- Excellent electrical performance, ideal for OA (office automation), AV (audiovisual), Bluetooth and Wireless LAN applications.
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder.



Pb Free

RoHS Compliant
Directive 2011/65/EU

■ Specifications

Item	Model	NX3225SA	
Nominal frequency		12 to 60 MHz	40 to 150 MHz
Overtone order		Fundamental	3rd overtone
Frequency tolerance (25 ±3 °C)		±15 × 10 ⁻⁶	±20 × 10 ⁻⁶
Frequency versus temperature characteristics (with reference to +25 °C)		±15 × 10 ⁻⁶	
Operating temperature range		-10 to +75 °C	
Storage temperature range		-40 to +85 °C	
Equivalent series resistance		Refer to *1	
Level of drive		10 μW (Max. 200 μW)	
Load capacitance		8 pF	Series resonance

The above specifications are standard for this NDK product.

Custom-made specifications such as load capacitance and temperature characteristics are also available.

Please contact NDK sales with your enquiries.

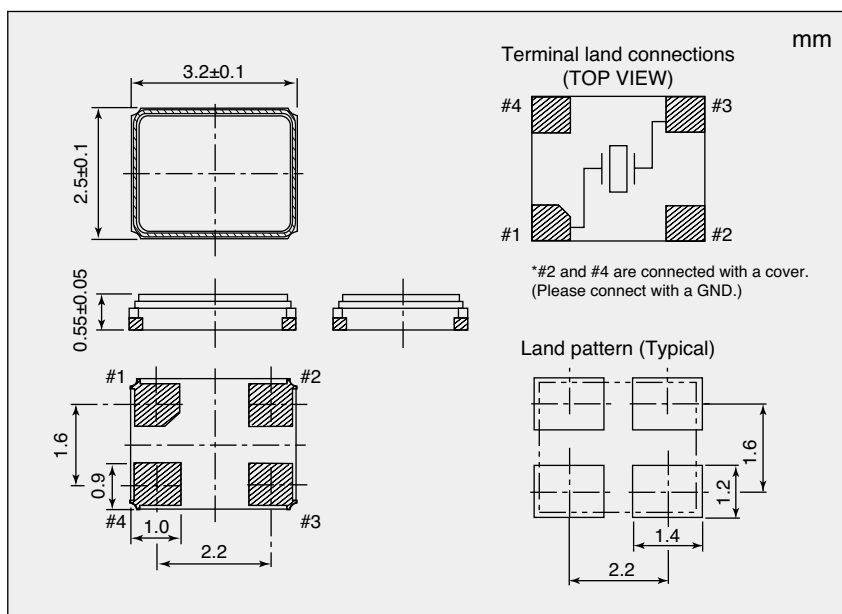
■ How to Specify an Order

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

[Model name] - [Frequency (Max : 9 digits)] M - [Number for specifying an order] Example NX3225SA-12.000M-STD-CSR-3

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/>).

■ Dimensions



*1 Equivalent Series Resistance

Overtone Order	Nominal frequency (MHz)	Equivalent Series Resistance max. [Ω]
Fundamental	12 to 13	100
	13 to 20	80
3rd overtone	20 to 60	50
	40 to 100	140
	100 to 150	100