Crystal Units



NX3225SA For OA / AV / Short-range Wireless

Features

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

- •Ultra compact and thin. $(3.2 \times 2.5 \times 0.55 \text{mm typ.})$
- •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.





RoHS Compliant Directive 2002/95/EC

■ Specifications

Item	NX3225SA
Frequency Range	12 to 54MHz
Overtone Order	Fundamental
Frequency Tolerance (25 ±3°C)	$\pm 15 \times 10^{-6}$
Temperature Characteristics (with reference to +25°C)	±15 × 10 ⁻⁶
Operating Temperature Range	–10 to +75°C
Equivalent Series Resistance	Refer to *1
Drive Level	10µW(Max:200µW)
Load Capacitance	8pF

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

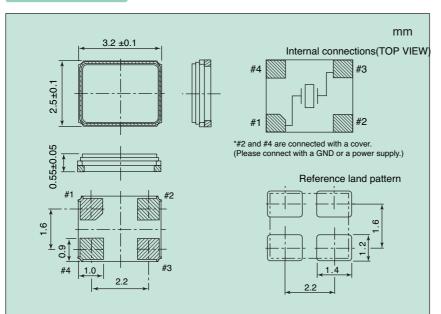
When ordering our products, specify them with an "Ordering Code" that consists of the following :

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

Frequency (MHz) (Range)	Equivalent Series Resistance max.[Ω]
12 to 13	120
13 to 16	100
16 to 20	80
20 to 30	70
30 to 54	50