Crystal Units

NDK
Crystal Bridge to the Future

NX1612AA — For OA / AV / Short-range Wireless

■ Features

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

● Ultra compact and thin. (1.6 × 1.2 × 0.3 mm typ., Max. H:0.35 mm)
● Highly reliable.
● Ideal for TV tuners. (For OA / AV)
● Ideal for ultra compact Wireless LAN and Bluetooth.(For Short-range Wireless)
● Lead-free. Meets the requirements for re-flow profiling using lead-free solder

Pb Free

RoHS Compliant
Directive 2011/65/EU

■ Specifications

Item \ Model	NX1612AA		
Main application	For OA / AV		For Short-range Wireless
Nominal frequency	24 to 80 MHz		
Overtone order	Fundamental		
Frequency tolerance (25 ±3 °C)	$\pm20 \times 10^{-6}$	$\pm20 \times 10^{-6}$	$\pm10 \times 10^{-6}$
Frequency versus temperature characteristics (with reference to +25 °C)	$\pm25 \times 10^{-6}$	$\pm20 \times 10^{-6}$	$\pm10 \times 10^{-6}$
Operating temperature range	−40 to +85 °C	−30 to +75 °C	−20 to +70 °C
Storage temperature range	−40 to +85 °C	−40 to +85 °C	−40 to +85 °C
Equivalent series resistance	Refer to *1		
Level of drive	10 µW (Max. 200 µW)		
Load capacitance	8 pF		7 pF
Number for specifying an order	STD-CSI-3	STD-CSI-1	STD-CSI-2

The above specifications are standard for this NDK product.

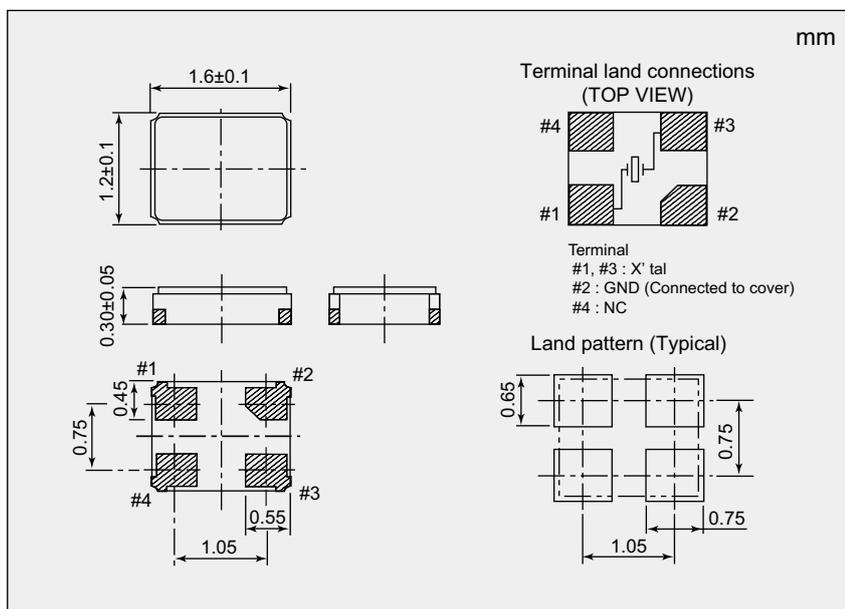### ■ How to Specify an Order

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 |

When ordering a product with model name: NX1612AA,
For OA / AVfrequency: 32.000MHz, and Frequency versus
temperature characteristics: $\pm25 \times 10^{-6}$
Ordering Code : NX1612AA-32.000M-STD-CSI-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

mm

Terminal land connections (TOP VIEW)

#4 #3
#1 #2

Terminal
#1, #3 : X' tal
#2 : GND (Connected to cover)
#4 : NC

Land pattern (Typical)

1.6±0.1
1.2±0.1
0.30±0.05
#1 #2
#4 #3
0.45
0.75
0.55
1.05
0.65
0.75
0.75
1.05

*1 Equivalent Series Resistance

Nominal frequency (MHz)	Equivalent Series Resistance max. [Ω]
24 to 32	150
32 to 38	100
38 to 80	80

NIHON DEMPA KOGYO CO.,LTD.

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