Crystal Units

NDK Crystal Bridge to the Future

NX2016SA For OA / AV/ Short-range Wireless

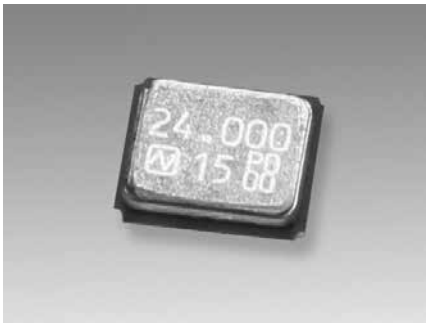
■ Features

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

- ●Ultra compact and thin. (2.0 × 1.6 × 0.45 mm)
- ●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
Directive (EU) 2015/863



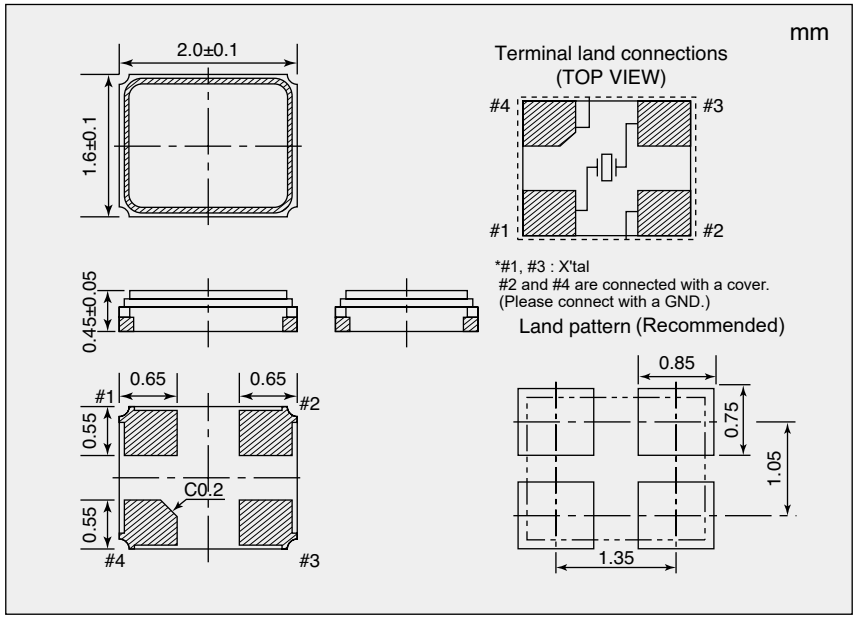
■ Specifications

Item \ Model	NX2016SA		
Standard	Standard		Optional
Nominal Frequency (MHz)	16 ≤ F ≤ 80		16 ≤ F ≤ 80
Overtone Order	Fundamental		Fundamental
Frequency Tolerance (25 ±3 °C)	±10 × 10^{-6}		±10 × 10^{-6}
Frequency versus Temperature Characteristics (with reference to +25 °C)	±25 × 10^{-6}	±15 × 10^{-6}	±25 × 10^{-6} (Temp extended case, *1)
Operating Temperature Range (°C)	−40 to +85	−10 to +75	−40 to +85 *1
Storage Temperature Range (°C)	−40 to +85		−40 to +85
Equivalent Series Resistance	Refer to *2		Refer to *2
Level of Drive (μW)	10 (Max. 100)		10 (Max. 100)
Load Capacitance (pF)	8		6 to 18
Frequency Aging (+25°C)			Max. ±3 × 10^{-6} / year *1
Specifications Number	STD-CZS-7	STD-CZS-6	Refer to *3

Please specify the model name,frequency,and specification number when you order products.
For futher questions regarding specifications, please feel free to contact us.
*1 If you have any other requests, NDK will study it.
*3 Ordering information: Overtone Order Fundamental / 3rd Overtone, the Operating Temperature Range, Frequency versus Temperature Characteristics, Frequency Tolerance, and Load Capacitance.
Ex. Model, Frequency (38.400000MHz 6digits), S1:Fundamental or S3:3rd Overtone
- Operating Temperature Range (-40 to +85°C) - Frequency versus Temperature Characteristics (±25×10^{-6})
- Frequency Tolerance (±12×10^{-6}) - Load Capacitance (7pF)

NX2016SA
38.400000MHz
S1-4085-25-12-7

■ Dimensions



*2 Equivalent Series Resistance

Nominal Frequency (MHz)	Equivalent Series Resistance Max. (Ω)
16 ≤ F < 18	200
18 ≤ F < 20	150
20 ≤ F < 24	100
24 ≤ F < 26	80
26 ≤ F < 40	60
40 ≤ F ≤ 80	50

If you have any other requests,NDK will study it.