# Crystal Units

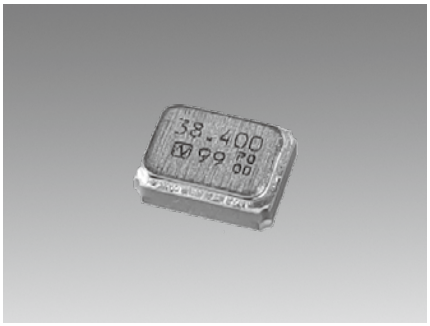
NDK Crystal Bridge to the Future

## NX1612SD For Mobile Communications

### ■ Features

Crystal Unit with built-in Thermistor construction.

- Minimize circuit design space by combining crystal unit into one component. (Presently, Crystal unit and temperature sensor is mounted in one board separately.)
- Placing temperature sensor(Thermistor) close to Crystal blank in one airtight housing can detect more precise crystal blank temperature. Improvement on frequency temperature compensation compared to present Crystal unit.
- Single cavity housing which is ideal to module applications.
- External configuration size is 1.6x1.2mm typ., H0.65 mm Max.
- A surface-mount crystal oscillator. (Reflow soldering is possible.)
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder.



Pb Free

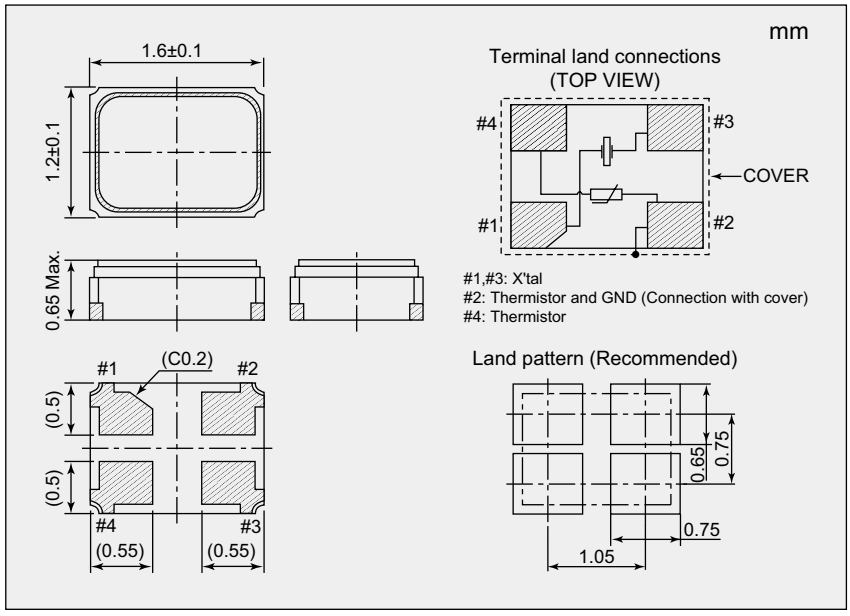
RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863

### ■ Specifications

| Item \ Model | NX1612SD | |
|---|---|---|
| Standard | Standard | Optional |
| Nominal Frequency (MHz) | 26 ≤ F ≤ 76.8 | 26 ≤ F ≤ 76.8 |
| Overtone Order | Fundamental | Fundamental |
| Frequency Tolerance (25 ± 3°C ) | ±10 × $10^{-6}$ | ±10 × $10^{-6}$ |
| Frequency versus Temperature Characteristics (with reference to +29 °C) | ±12 × $10^{-6}$ | Please contact us about temp extended case, *1 |
| Operating Temperature Range (°C) | −30 to +85 | Please contact us about temp extended case, *1 |
| Storage Temperature Range (°C) | −40 to +105 | −40 to +105 |
| 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-CTI-2 | 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 (-30 to +85°C) - Frequency versus Temperature Characteristics (±12×$10^{-6}$)
- Frequency Tolerance (±12×$10^{-6}$) - Load Capacitance (7pF)
NX1612SD
38.400000MHz
S1-3085-12-12-7

### ■ Dimensions




*2 Equivalent Series Resistance

| Nominal Frequency (MHz) | Equivalent Series Resistance Max. (Ω) |
|---|---|
| 26 ≤ F < 38.4 | 80 |
| 38.4 ≤ F ≤ 76.8 | 50 |

NTC Thermistor for Temperature Sensor

| | |
|---|---|
| Resistance (R25) | 100k Ω ± 1 % |
| B-Constant (B25-50) | 4250K ± 1 % |

# X-ON Electronics

Largest Supplier of Electrical and Electronic Components

***Click to view similar products for*** Crystals ***category:***

***Click to view products by*** NDK ***manufacturer:***

Other Similar products are found below :

CX3225GB25000M0PPSZ1 718-13.2-1 7A-40.000MAAE-T FL2000085 99-BU 9B-15.360MBBK-B 9C-7.680MBBK-T H10S-12.000-18-EXT-TR ABC2-6.000MHZ-D4Z-T ABLS-20.000MHZ-D2-T ABS071-32.768KHZ-6-T R38-32.768-12.5-5PPM-NPB BTD1062E05A-513 21U15A-21.4MHZ RTX-781DF1-S-20.950 LFXTAL066198Cutt 9C-14.31818MBBK-T A-11.000MHZ-27 ABL-27.000MHZ-B4Y-T ABM11-132-24.000MHZ-T3 ABM3B1-25.000MHZ-D2Y-T SPT2A-.032768B SPT2A.032768G SSPT7F-9PF20-R LFXTAL065253Cutt LFXTAL066431Cutt XT9S20ANA14M7456 XT9SNLANA16M 7A-24.576MBBK-T 7B-30.000MBBK-T MMCC2R32.7680KHZ 7A-14.31818MBBK-T 6504-202-1501 6526-202-1501 ABLS-12.000MHZ-B2Y-T 7A-10.000MBBK-T SG636PCE-20.000MC 3404 E1SAA18-25.000M TR CM315D32768EZFT C1E-24.000-7-2020-R C1E-19.200-12-1530-X-R C1E-16.000-12-1530-X-R ABM11-16.000MHZ-9-B1U-T FL5000014 EUCA18-3.1872M FX0800015 425F35E027M0000 FP0800018 MS3V-T1R-32.768kHz-7pF-20PPM-TA-QC-Au