

NX1612SA

For OA / AV / Short-range Wireless

■ Features

- A small and thin surface-mount type crystal unit.
- Ideal for Wearable device and Short-range Wireless module.
- Ultra compact and thin (Typ. 1.6 × 1.2 × 0.3 mm)
- 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 | NX1612SA | |
|---|-------|------------------------|--|
| | | Standard | Optional |
| Standard | | Standard | Optional |
| Nominal Frequency (MHz) | | 24 ≤ F ≤ 80 | 24 ≤ 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) | | ±15 × 10 ⁻⁶ | ±25 × 10 ⁻⁶ (Temp extended case, *1) |
| Operating Temperature Range (°C) | | -30 to +85 | -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 | | --- | Max. ±3 × 10 ⁻⁶ / year *1 |
| Specifications Number | | STD-CIS-3 | Refer to *3 |

Please specify the model name, frequency, and specification number when you order products.

For further 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)

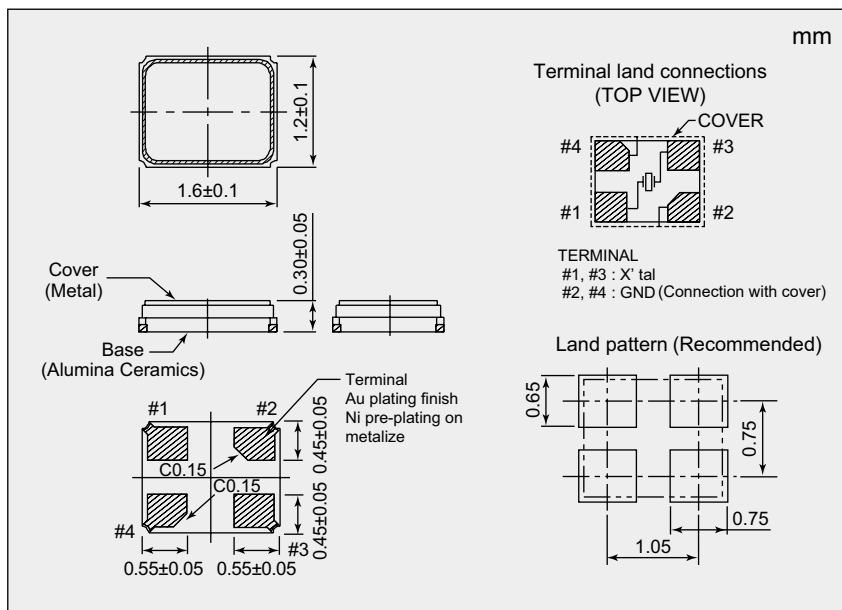
- Frequency Tolerance (±12×10⁻⁶) - Load Capacitance (7pF)

NX1612SA

38.400000MHz

S1-3085-12-12-7

■ Dimensions



*2 Equivalent Series Resistance

| Nominal Frequency (MHz) | Equivalent Series Resistance Max. (Ω) |
|-------------------------|---------------------------------------|
| 24 ≤ F < 32 | 150 |
| 32 ≤ F < 38 | 100 |
| 38 ≤ F ≤ 80 | 80 |