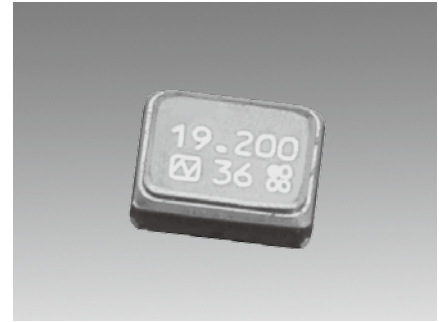


NX2016SF

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 2.0x1.6mm 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

■ Specifications

Item	Model	NX2016SF
Nominal frequency		19.2 to 52 MHz
Overtone order		Fundamental
Frequency tolerance (32 ± 3°C @19.2MHz)		±10 × 10 ⁻⁶
Frequency versus temperature characteristics (with reference to +32 °C@19.2MHz)		±12 × 10 ⁻⁶
Operating temperature range		-30 to +85 °C
Storage temperature range		-40 to +85 °C
Equivalent series resistance		Refer to *1
Level of drive		10 μW
Load capacitance		7 pF

NTC Thermistor for Temperature Sensor

Dimensions	0.6 × 0.3 × 0.15 mm
Resistance [R25]	100k Ω ± 1 %
B-Constant [B25-50]	4250K ± 1 %

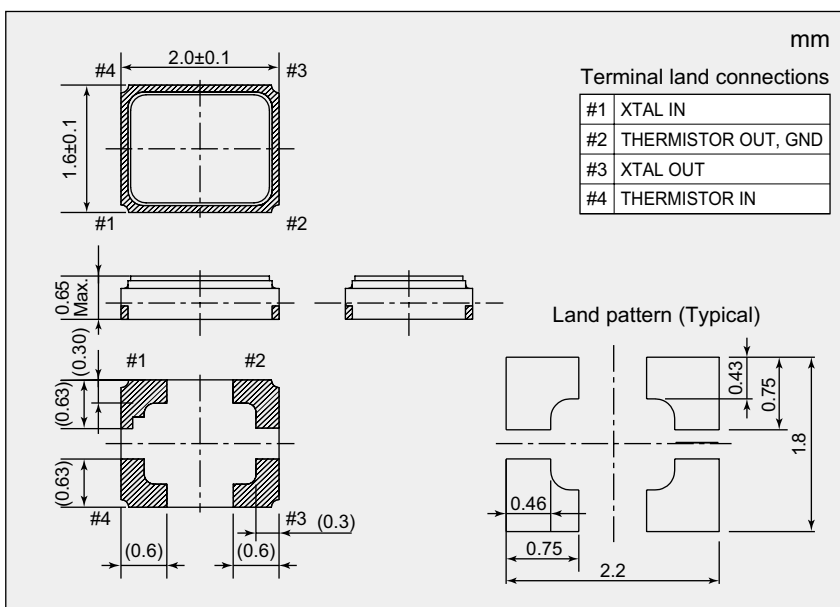
■ How to Specify an Order

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 NX2016SF-19.200M-STD-CTZ-1

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

Nominal frequency (MHz)	Equivalent Series Resistance max. [Ω]
19.2 to 24	80
24 to 52	60