Crystal Units

Crystal Bridge to the Future

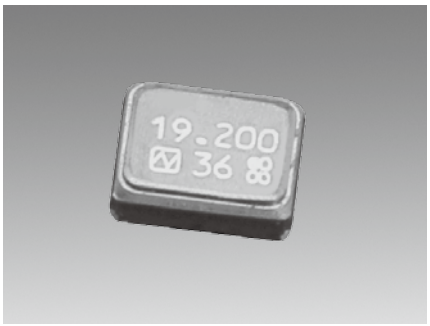
NX2016SF

For Automotive

■ Features

Crystal Unit with built-in Thermistor construction for automotive.

- 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.
- It is ideal for applications such as vehicle communication equipment and car navigation systems.
- Meets the requirements for re-flow profiling using lead-free solder.
- Conforms to AEC-Q200.



Pb Free

RoHS Compliant
Directive 2011/65/EU

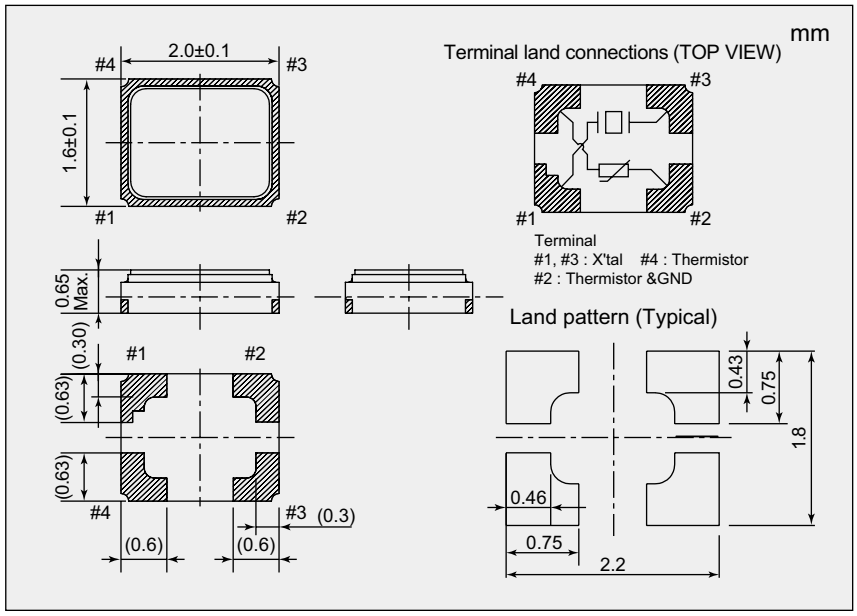
■ Specifications

Item \ Model	NX2016SF
Nominal Frequency	19.2 to 54 MHz
Overtone Order	Fundamental
Frequency Tolerance (25°C)	±10 × 10^{-6}
Frequency versus Temperature Characteristics (with reference to +25 °C)	±25 × 10^{-6}
Operating Temperature Range	−40 to +105 °C
Storage Temperature Range	−40 to +105 °C
Equivalent Series Resistance	Refer to *1
Level of Drive	10 μW (Max. 100 μW)
Load Capacitance	7 pF

NTC Thermistor for Temperature Sensor

Resistance [R25]	100k Ω ± 1 %
B-Constant [B25-50]	4250K ± 1 %

■ Dimensions



*1 Equivalent Series Resistance

Nominal frequency (MHz)	Equivalent Series Resistance max. [Ω]
19.2 to 20	70
20 to 40	50
40 to 54	40

Please specify the model name, frequency, and specification number when you order products.
For further questions regarding specifications, please feel free to contact us.