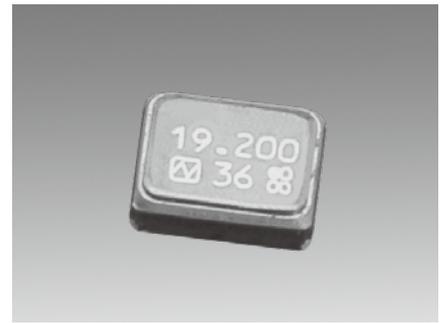


NX2016SF

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
Directive (EU) 2015/863

Specifications

Item	Model	NX2016SF	
		Standard	Optional
Standard		Standard	Optional
Nominal Frequency (MHz)		$19.2 \leq F \leq 52$	$19.2 \leq F \leq 52$
Overtone Order		Fundamental	Fundamental
Frequency Tolerance ($25 \pm 3^\circ\text{C}$)		$\pm 10 \times 10^{-6}$	$\pm 10 \times 10^{-6}$
Frequency versus Temperature Characteristics (with reference to $+32^\circ\text{C}$)		$\pm 12 \times 10^{-6}$	Please contact us about temp extended case, *1
Operating Temperature Range ($^\circ\text{C}$)		-30 to $+85$	Please contact us about temp extended case, *1
Storage Temperature Range ($^\circ\text{C}$)		-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)		7	6 to 18
Frequency Aging ($+25^\circ\text{C}$)		---	Max. $\pm 3 \times 10^{-6}$ / year *1
Specifications Number		STD-CTZ-1	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 $+85^\circ\text{C}$) - Frequency versus Temperature Characteristics ($\pm 12 \times 10^{-6}$)

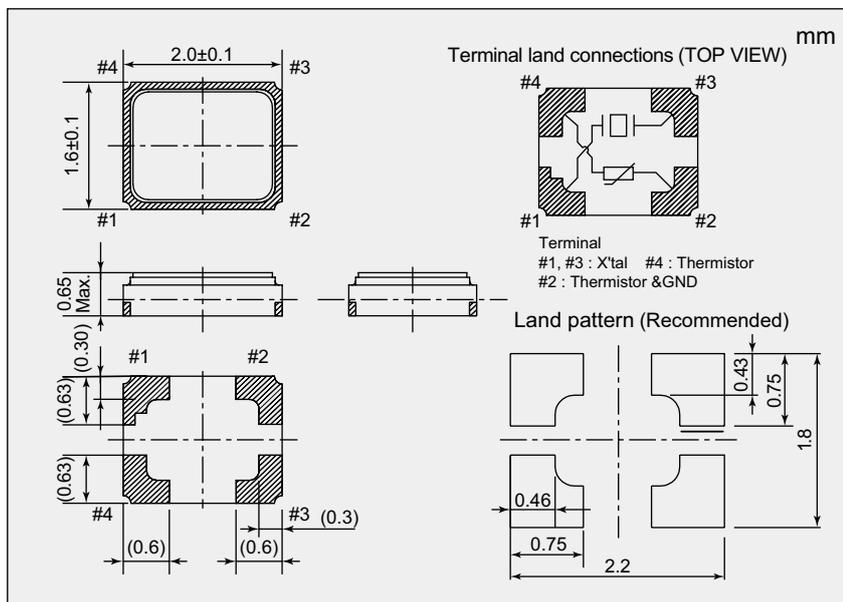
- Frequency Tolerance ($\pm 12 \times 10^{-6}$) - Load Capacitance (7pF)

NX2016SF

38.400000MHz

S1-3085-12-12-7

Dimensions



*2 Equivalent Series Resistance

Nominal Frequency (MHz)	Equivalent Series Resistance Max. (Ω)
$19.2 \leq F < 24$	80
$24 \leq F \leq 52$	60

NTC Thermistor for Temperature Sensor

Resistance (R25)	$100\text{k} \Omega \pm 1\%$
B-Constant (B25-50)	$4250\text{K} \pm 1\%$