

## NX3225SA For OA / AV Mobile Communications/ Short-range Wireless

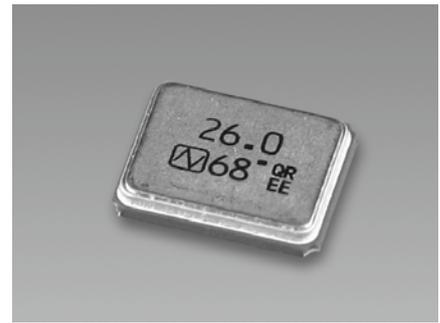
### ■ Features

Ideal for such as bluetooth, Wifi, smartphone and tablet pc.

- Compact and thin. (3.2 × 2.5 × 0.55 mm typ.)
- Excellent environmental characteristics, including heat and shock resistance.
- 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	NX3225SA			
		Standard			Optional
Nominal Frequency (MHz)		12 ≤ F ≤ 64	16 ≤ F ≤ 54	40 ≤ F ≤ 150	12 ≤ F ≤ 64
Overtone Order		Fundamental	Fundamental	3rd overtone	Fundamental
Frequency Tolerance (25 ±3 °C)		±15 × 10 <sup>-6</sup>	±10 × 10 <sup>-6</sup>	±20 × 10 <sup>-6</sup>	±10 × 10 <sup>-6</sup>
Frequency versus Temperature Characteristics (with reference to +25 °C)		±25 × 10 <sup>-6</sup>	±10 × 10 <sup>-6</sup>	±25 × 10 <sup>-6</sup>	±25 × 10 <sup>-6</sup> (Temp extended case, *1)
Operating Temperature Range (°C)		-40 to +85	-20 to +75	-40 to +85	-40 to +85 *1
Storage Temperature Range			-40 to +85		-40 to +85
Equivalent Series Resistance		Refer to *2	Refer to *3	Refer to *4	Refer to *1
Level of Drive (µW)		10 (Max. 200)			10 (Max. 200)
Load Capacitance (pF)		8	10	Series resonance	6 to 32
Frequency Aging (+25 °C)		---			Max. ±3 × 10 <sup>-6</sup> / year *1
Specifications Number		STD-CSR-6	STD-CSQ-1	STD-CSR-7	Refer to *5

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.

\*5 Ordering information: Overtone Order Fundamental / 3rd Overtone, the Operating Temperature Range, Frequency versus Temperature Characteristics, Frequency Tolerance, and Load Capacitance.

Ex. Model, Frequency (24.000000MHz 6digits), S1: Fundamental or S3 : 3rd overtone

- Operating Temperature Range (-40 to +85°C) - Frequency versus Temperature Characteristics (±25 × 10<sup>-6</sup>)

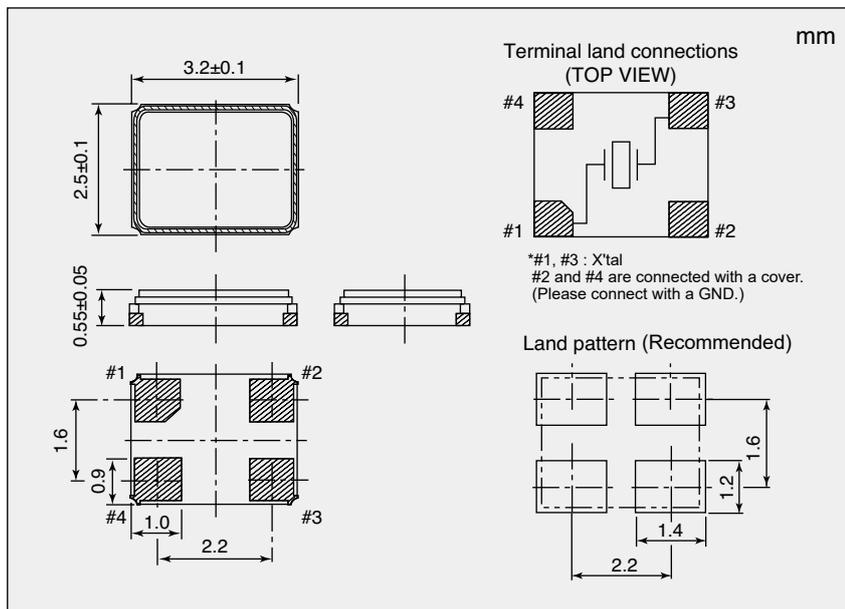
- Frequency Tolerance (±10 × 10<sup>-6</sup>) - Load Capacitance (8pF)

NX3225SA

24.000000MHz

S1-4085-25-10-8

### ■ Dimensions



### Equivalent Series Resistance

	Overtone Order	Nominal Frequency (MHz)	Equivalent Series Resistance Max. (Ω)
*2	Fundamental	12 ≤ F < 13	100
		13 ≤ F < 20	80
		20 ≤ F ≤ 64	50
*3	Fundamental	16 ≤ F < 20	80
		20 ≤ F ≤ 54	50
*4	3rd overtone	40 ≤ F < 100	140
		100 ≤ F ≤ 150	100

If you have any other requests, NDK will study it.