

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

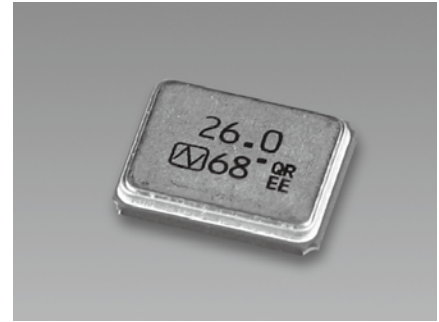
### ■ Features

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 to 64	16 to 54	40 to 150	12 to 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>)

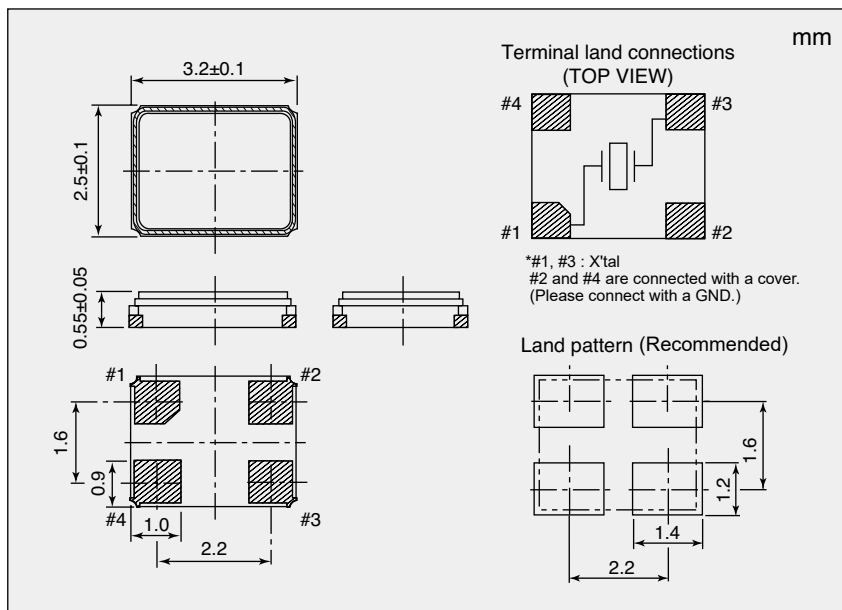
- Frequency Tolerance (±10 × 10<sup>-6</sup>) - Load Capacitance (8pF)

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 to 13	100
		13 to 20	80
		20 to 64	50
*3	Fundamental	16 to 20	80
		20 to 54	50
*4	3rd overtone	40 to 100	140
		100 to 150	100

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