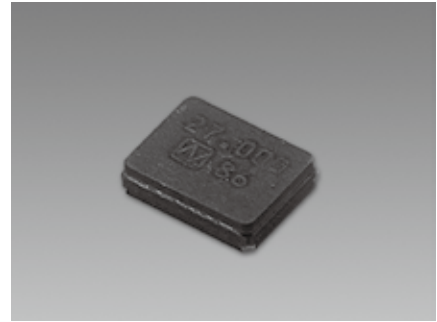# Crystal Units

NX3225GA

For OA / AV

■ Features

A small surface-mount type crystal unit, especially suited for small-sizing requirements.

● Compact and thin. (3.2 x 2.5 x 0.75 mm typ.)

● Excellent environmental characteristics, including heat and shock resistance.

● Excellent electrical performance for OA (office automation) and AV (audiovisual) applications.

● Meets the requirements for re-flow profiling using lead-free solder.

RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863

■ Specifications

Item \ Model	NX3225GA	
Standard	Standard	Optional
Nominal Frequency (MHz)	$9.840 \le F \le 50$	$9.840 \le F \le 50$
Overtone Order	Fundamental	Fundamental
Frequency Tolerance (25 ±3 °C)	$\pm 20 \times 10^{-6}$	$\pm 20 \times 10^{-6}$
Frequency versus Temperature Characteristics (with reference to +25 °C)	$\pm 30 \times 10^{-6}$	$\pm 30 \times 10^{-6}$ (Temp extended case, *1)
Operating Temperature Range (°C)	−40 to +85	−40 to +85 *1
Storage Temperature Range (°C)	−40 to +85	−40 to +85
Equivalent Series Resistance	Refer to *2	Refer to *2
Level of Drive (µW)	10 (Max. 200)	10 (Max. 200)
Load Capacitance (pF)	8	6 to 32
Frequency Aging (+25 °C)	---	Max. $\pm 10 \times 10^{-6}$ / year *1
Specifications Number	STD-CRG-2	Refer to *3

Please specify the model name,frequency,and specification number when you order products.

For futher 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 (-40 to +85°C) - Frequency versus Temperature Characteristics ($\pm 30 \times 10^{-6}$)
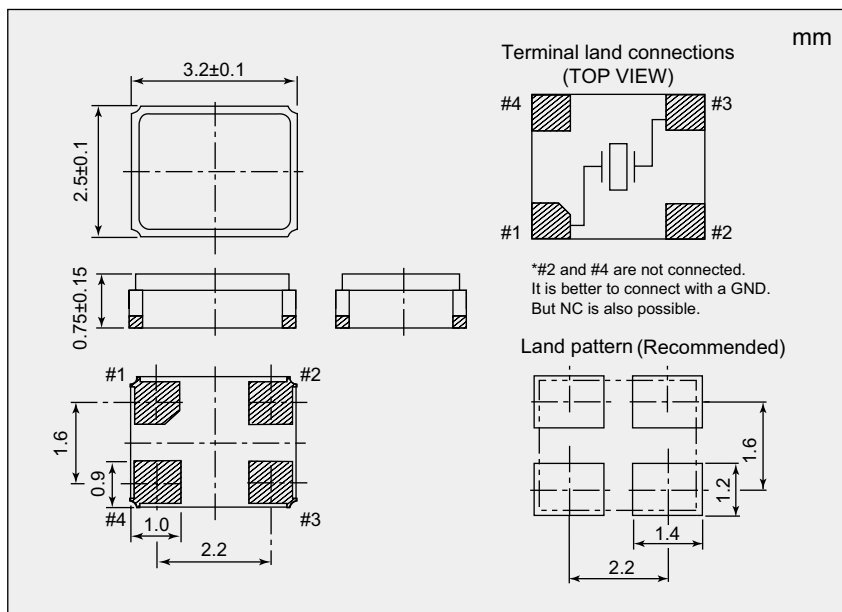
     - Frequency Tolerance ($\pm 20 \times 10^{-6}$) - Load Capacitance (8pF)

     NX3225GA

     38.400000MHz

     S1-4085-30-20-8

■ Dimensions

mm

Terminal land connections (TOP VIEW)

*#2 and #4 are not connected. It is better to connect with a GND. But NC is also possible.

Land pattern (Recommended)

*2 Equivalent Series Resistance

Nominal Frequency (MHz)	Equivalent Series Resistance Max. (Ω)
$9.840 \le F < 12$	200
$12 \le F < 13$	100
$13 \le F < 20$	80
$20 \le F \le 50$	50

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