Crystal Units

Crystal Bridge to the Future

NX3225GA

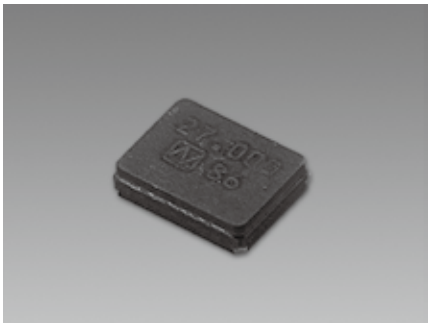
For OA / AV

■ 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

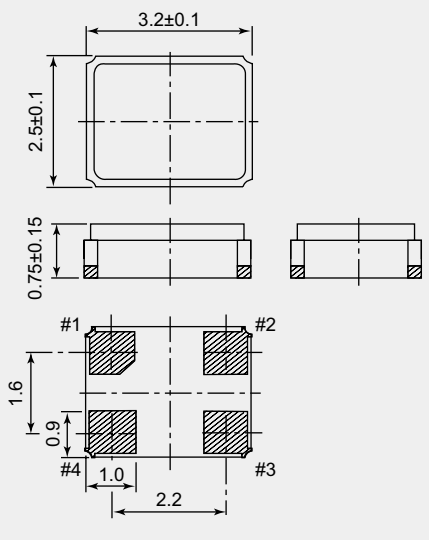
Item \ Model	NX3225GA	
Standard	Standard	Optional
Nominal Frequency (MHz)	9.840 ≤ F ≤ 50	9.840 ≤ F ≤ 50
Overtone Order	Fundamental	Fundamental
Frequency Tolerance (25 ±3 °C)	±20 × 10^{-6}	±20 × 10^{-6}
Frequency versus Temperature Characteristics (with reference to +25 °C)	±30 × 10^{-6}	±30 × 10^{-6} (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. ±10 × 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 (±30×10^{-6})
- Frequency Tolerance (±20×10^{-6}) - Load Capacitance (8pF)

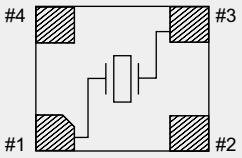
NX3225GA
38.400000MHz
S1-4085-30-20-8

■ Dimensions

mm

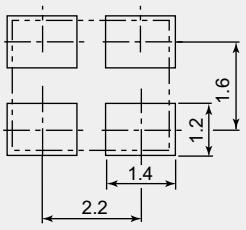


Terminal land connections
(TOP VIEW)



*#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 ≤ F < 12	200
12 ≤ F < 13	100
13 ≤ F < 20	80
20 ≤ F ≤ 50	50

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

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NDK:

NX3225GA-12.000M-STD-CRG-2 NX3225GA-16.000M-STD-CRG-2 NX3225GA-12.000M-STD-CRA-1 NX3225GA-12.288M-STD-CRG-2 NX3225GA-12MHZ-STD-CRG-2 NX3225GA-27.12M-STD-CRG-2 NX3225GA-20.000M-STD-CRG-2 NX3225GA-26.000M-STD-CRG-2 NX3225GA-16.9344M-STD-CRG-2 NX3225GA-27M-STD-CRG-2 NX3225GA-13.56M-STD-CRG-2 NX3225GA-14.7456M-STD-CRG-2 NX3225GA-10.000M-STD-CRG-2 NX3225GA-19.2M-STD-CRG-2