

NX3225GB

For Automotive

■ Features

A small surface-mount type crystal unit, ideal for an engine control CPU clock; delivering the high reliability that is particularly demanded by automotive.

- Compact and thin. (3.2 x 2.5 x 0.75 mm typ.)
- High resistance to solder cracking.
- Stable start-up characteristics even under extremely severe environmental conditions.
- Excellent environment-resistant performance, including heat, vibration and shock resistance.
- Meets the requirements for re-flow profiling using lead-free solder.
- Conforms to AEC-Q200.

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



■ Specifications

| Item | Model | NX3225GB | |
|---|-------|-------------------------|---------------------------------------|
| | | Standard | Optional |
| Nominal Frequency (MHz) | | 12 ≤ F ≤ 50 | 12 ≤ F ≤ 50 |
| Overtone Order | | Fundamental | Fundamental |
| Frequency Tolerance (25 ±3 °C) | | ±50 × 10 ⁻⁶ | ±50 × 10 ⁻⁶ |
| Frequency versus Temperature Characteristics (with reference to +25 °C) | | ±150 × 10 ⁻⁶ | ±150 × 10 ⁻⁶ |
| Operating Temperature Range (°C) | | -40 to +150 | -40 to +150 |
| Storage Temperature Range (°C) | | -40 to +150 | -40 to +150 |
| Equivalent Series Resistance | | Refer to *1 | Refer to *1 |
| 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 *2 |
| Specifications Number | | STD-CRA-2 | Refer to *3 |

*If you required 7.98 to 12MHz, please refer to NX3225GD.

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

For further questions regarding specifications, please feel free to contact us.

*2 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 +150°C) - Frequency versus Temperature Characteristics (±150×10⁻⁶)

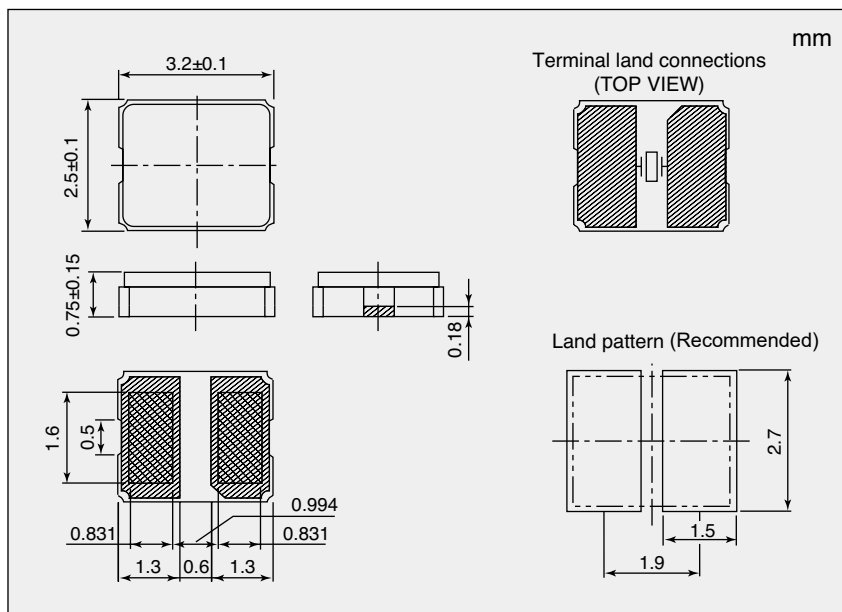
- Frequency Tolerance (±50×10⁻⁶) - Load Capacitance (8pF)

NX3225GB

38.400000MHz

S1-40150-150-50-8

■ Dimensions



*1 Equivalent Series Resistance

| Nominal Frequency (MHz) | Equivalent Series Resistance Max. (Ω) |
|-------------------------|---------------------------------------|
| 12 ≤ F < 20 | 120 |
| 20 ≤ F ≤ 50 | 100 |

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