



**THE DATASHEET OF
NX5032GA24.000MHZ**



Specification of Crystal

| | | |
|-------|--|--|
| 1 | NDK Part Number | See table 1 |
| 2 | NDK Specification Number | LN-CD-1 |
| 3 | Type | NX5032GA |
| 4 | Electrical Characteristics | |
| 4.1 | Nominal Frequency (f_{nom}) | See table 1 |
| 4.2 | Overtone order | Fundamental |
| 4.3 | Frequency Tolerance | $\pm 50 \times 10^{-6}$ max. (+25 °C) |
| 4.4 | Frequency Versus Temperature Characteristics | $\pm 50 \times 10^{-6}$ max. (-10 ~ +70 °C) The reference temperature shall be +25 °C |
| 4.5 | Equivalent Series Resistance (R_r) | See table 1 |
| 4.6 | Shunt Capacitance (C_0) | NA |
| 4.7 | Maximum Drive Level | 500 μ W max. |
| 5 | Measurement Circuit | |
| 5.1 | Frequency Measurement | |
| 5.1.1 | Measuring Instrument | π -network |
| 5.1.2 | Load Capacitance (C_L) | 8 pF |
| 5.1.3 | Level of Drive | 50 μ W |
| 5.2 | Equivalent Resistance Measurement | |
| 5.2.1 | Measuring Instrument | π -network |
| 5.2.2 | Load Capacitance (C_L) | Series |
| 5.2.3 | Level of Drive | 50 μ W |
| 6 | Operable Temperature Range | -10 ~ +70 °C |
| 7 | Storage Temperature Range | -40 ~ +85 °C |
| 8 | Dimension | |

(Unit: mm)

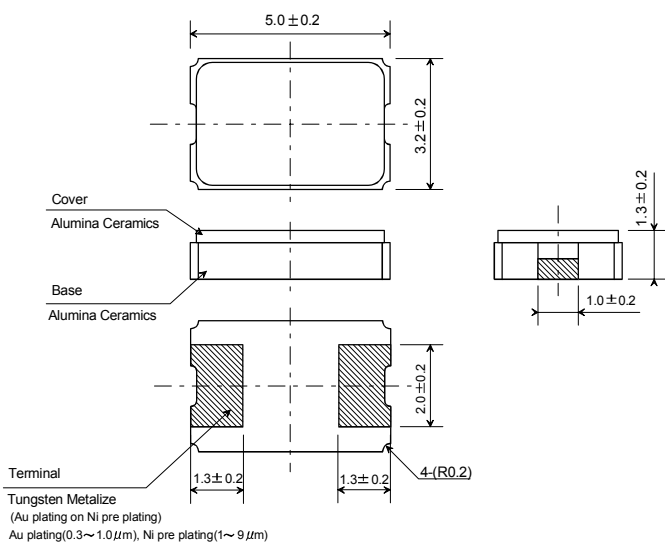
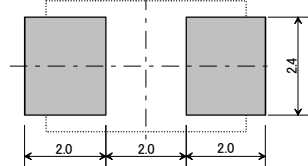


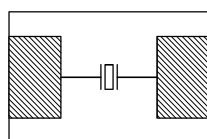
Table 1

| f_{nom} (MHz) | R_r (Ω) max. | NDK Part Number |
|-----------------|-------------------------|--------------------------|
| 10.000 | 120 | NX5032GA-10.000M-LN-CD-1 |
| 12.000 | 120 | NX5032GA-12.000M-LN-CD-1 |
| 12.288 | 120 | NX5032GA-12.288M-LN-CD-1 |
| 13.560 | 120 | NX5032GA-13.560M-LN-CD-1 |
| 16.000 | 120 | NX5032GA-16.000M-LN-CD-1 |
| 16.384 | 120 | NX5032GA-16.384M-LN-CD-1 |
| 20.000 | 70 | NX5032GA-20.000M-LN-CD-1 |
| 24.000 | 70 | NX5032GA-24.000M-LN-CD-1 |
| 25.000 | 70 | NX5032GA-25.000M-LN-CD-1 |
| 27.000 | 70 | NX5032GA-27.000M-LN-CD-1 |
| 30.000 | 50 | NX5032GA-30.000M-LN-CD-1 |
| 32.000 | 50 | NX5032GA-32.000M-LN-CD-1 |
| 40.000 | 50 | NX5032GA-40.000M-LN-CD-1 |
| 48.000 | 50 | NX5032GA-48.000M-LN-CD-1 |

REFERENCE LAND PATTERN (TYPICAL)



Terminal Land Connection [Top View]



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