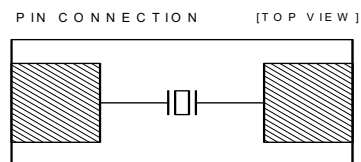
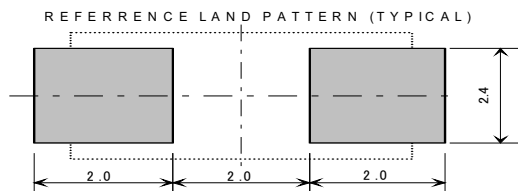
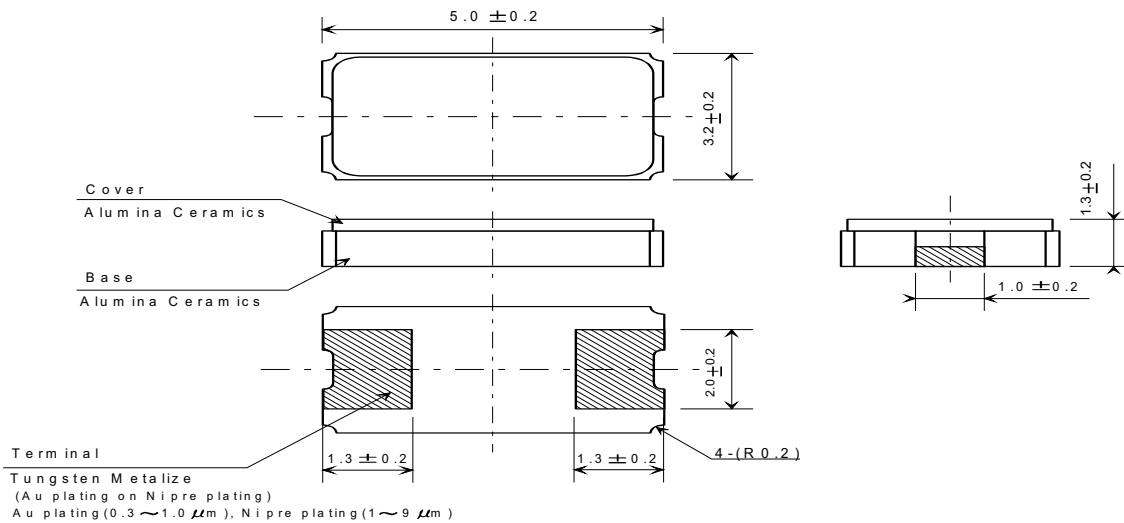


## Specification of Crystal Unit

|       |                                      |                                                                                        |
|-------|--------------------------------------|----------------------------------------------------------------------------------------|
| 1     | NDK PART NUMBER                      | NX5032GA<br>(STD-CSU-1)(STD-CSU-2)<br>NX5032GA                                         |
| 5     | Type                                 |                                                                                        |
| 6     | Electrical characteristics           | * ATTACHED SHEETS 3                                                                    |
| 6.1   | Nominal frequency(F0)                | 8MHZ to40MHZ                                                                           |
| 6.2   | Overtone order                       | Fundamental                                                                            |
| 6.3   | Adjustment tolerance                 | $\pm 50 \times 10^{-6}$ max. (+25 °C)                                                  |
| 6.4   | Tolerance over the temperature range | $\pm 150 \times 10^{-6}$ max. (-40~+150 °C) The reference temperature shall be +25 °C. |
| 6.5   | Equivalent resistance (R1)           | *ATTACHED SHEETS 3                                                                     |
| 6.6   | Shunt Capacitance (C0)               | NA                                                                                     |
| 6.7   | Motional Capacitance (C1)            | 500 $\mu$ W max.                                                                       |
| 7     | Measurement circuit                  |                                                                                        |
| 7.2   | Frequency measurement                | $\pi$ circuit                                                                          |
| 7.1.1 | Measuring instrument                 | 8pF                                                                                    |
| 7.1.2 | Load capacitance(CL)                 | 10 $\mu$ W                                                                             |
| 7.1.3 | Level of drive                       |                                                                                        |
| 7.2   | Equivalent resistance measurement    | $\pi$ circuit                                                                          |
| 7.2.1 | Measuring instrument                 | Series                                                                                 |
| 7.2.2 | Load capacitance(CL)                 | 10 $\mu$ W                                                                             |
| 7.2.3 | Level of drive                       |                                                                                        |

## 8 Dimension



| Frequency(MHz) | CI(ESR) |
|----------------|---------|
| 8              | 300     |
| 10             | 120 ohm |
| 12             | 120 ohm |
| 16             | 120 ohm |
| 20             | 70 ohm  |
| 40             | 50 ohm  |