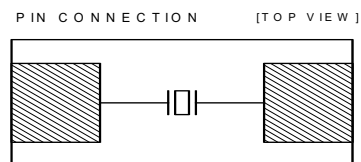
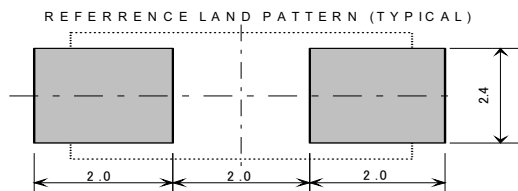
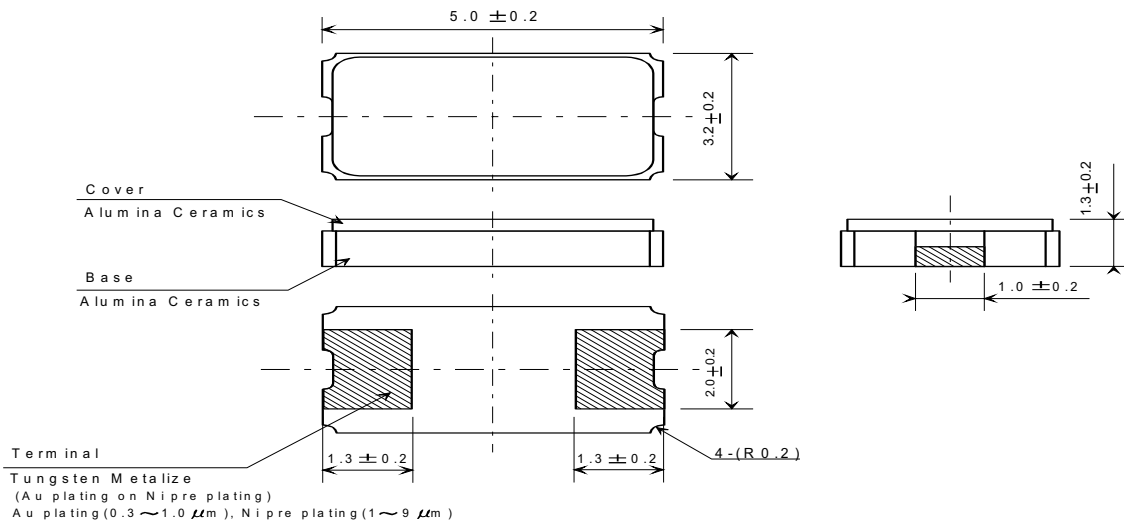


## Specification of Crystal Unit

|       |                                      |                                                                                      |
|-------|--------------------------------------|--------------------------------------------------------------------------------------|
| 1     | NDK PART NUMBER                      | NX5032SD<br>(STD-CSY-1)                                                              |
| 5     | Type                                 | NX5032SD                                                                             |
| 6     | Electrical characteristics           | * ATTACHED SHEETS 3                                                                  |
| 6.1   | Nominal frequency(F0)                | 9.84375MHZ, 13.56MHZ                                                                 |
| 6.2   | Overtone order                       | Fundamental                                                                          |
| 6.3   | Adjustment tolerance                 | $\pm 15 \times 10^{-6}$ max. (+25 °C)                                                |
| 6.4   | Tolerance over the temperature range | $\pm 50 \times 10^{-6}$ max. (-40~+125°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)            | 100 $\mu$ W max.                                                                     |
| 7     | Measurement circuit                  |                                                                                      |
| 7.2   | Frequency measurement                | $\pi$ circuit                                                                        |
| 7.1.1 | Measuring instrument                 | 12pF                                                                                 |
| 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) |
|----------------|---------|
| 9.84375        | 150 ohm |
| 13.56          | 120 ohm |