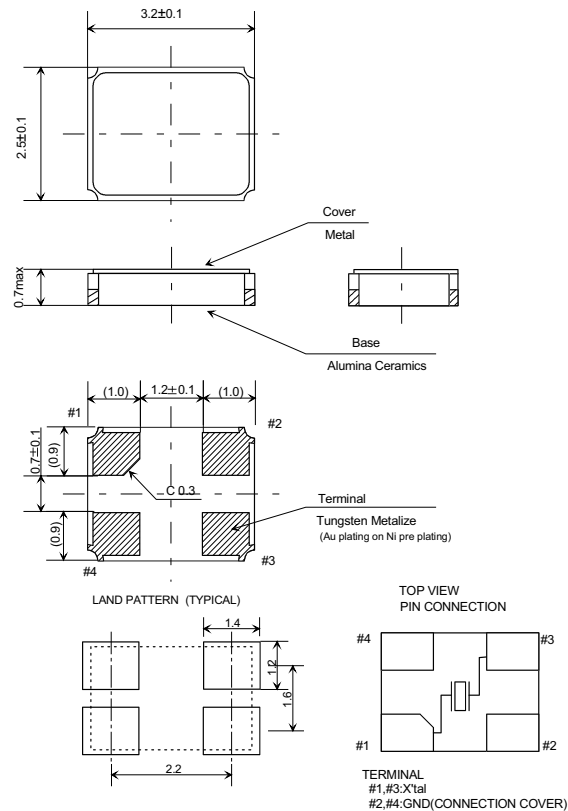


## Specification of Crystal Unit

|       |                                      |                                                                                      |
|-------|--------------------------------------|--------------------------------------------------------------------------------------|
| 1     | NDK PART NUMBER                      | NX3225SA                                                                             |
| 5     | Type                                 | (STD-CSR-1)<br>NX3225SA                                                              |
| 6     | Electrical characteristics           |                                                                                      |
| 6.1   | Nominal frequency(F0)                | * ATTACHED SHEETS 4                                                                  |
| 6.2   | Overtone order                       | Fundamental                                                                          |
| 6.3   | Adjustment tolerance                 | $\pm 15 \times 10^{-6}$ max. (+25 °C)                                                |
| 6.4   | Tolerance over the temperature range | $\pm 15 \times 10^{-6}$ max. (-10~+70 °C) The reference temperature shall be +25 °C. |
| 6.5   | Equivalent resistance (R1)           | *ATTACHED SHEETS 4                                                                   |
| 6.6   | Shunt Capacitance (C0)               | NA                                                                                   |
| 6.7   | Motional Capacitance (C1)            | 200 $\mu$ W max.                                                                     |
| 7     | Measurement circuit                  |                                                                                      |
| 7.2   | Frequency measurement                |                                                                                      |
| 7.1.1 | Measuring instrument                 | $\pi$ circuit                                                                        |
| 7.1.2 | Load capacitance(CL)                 | 8 pF                                                                                 |
| 7.1.3 | Level of drive                       | 50 $\mu$ W                                                                           |
| 7.2   | Equivalent resistance measurement    |                                                                                      |
| 7.2.1 | Measuring instrument                 | $\pi$ circuit                                                                        |
| 7.2.2 | Load capacitance(CL)                 | Series                                                                               |
| 7.2.3 | Level of drive                       | 50 $\mu$ W                                                                           |
| 8     | Dimension                            |                                                                                      |



| Frequency(MHz) | CI(ESR) |
|----------------|---------|
| 12             | 120 ohm |
| 14.31818       | 100 ohm |
| 16             | 80 ohm  |
| 20             | 70 ohm  |
| 22             | 70 ohm  |
| 24             | 70 ohm  |
| 24.576         | 70 ohm  |
| 26             | 70 ohm  |
| 27             | 70 ohm  |
| 32             | 50 ohm  |
| 40             | 50 ohm  |
| 44             | 50 ohm  |