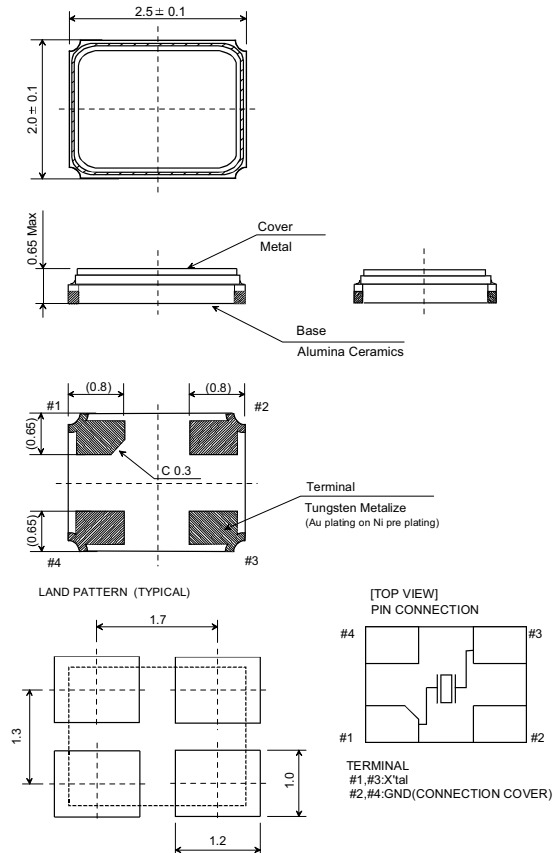**Specification of Crystal Unit**

1 NDK PART NUMBER NX2520SA-16.000000MHz-W1

2 CHIPSET MAKER FREESCALE

3 APPLICATION Wireless LAN, ZIGBEE

4 CHIPSET NAME MC13192

5 Type NX2520SA

6 Electrical characteristics
6.1 Nominal frequency(F0) 16.000MHz
6.2 Overtone order Fundamental
6.3 Adjustment tolerance $\pm20\times10^{-6}$ max. (+25 °C)
6.4 Tolerance over the temperature range $\pm20\times10^{-6}$ max. (-40~+85 °C) The reference temperature shall be +25 °C.
6.5 Equivalent resistance (R1) 120Ω max.
6.6 Shunt Capacitance (C0) 7.0 pF max.
6.7 Maximum Drive Level $200\mu W$ max.

7 Measurement circuit
7.2 Frequency measurement
7.1.1 Measuring instrument π circuit
7.1.2 Load capacitance(CL) 8pF
7.1.3 Level of drive $50\mu W$
7.2 Equivalent resistance measurement
7.2.1 Measuring instrument π circuit
7.2.2 Load capacitance(CL) Series
7.2.3 Level of drive $50\mu W$

8 Dimension

LAND PATTERN (TYPICAL)

[TOP VIEW]
PIN CONNECTION

TERMINAL
#1,#3:X'tal
#2,#4:GND(CONNECTION COVER)

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