Specification of Quartz Crystal Units



NDK Part Number 1 NX2520SD-24MHZ-EXS00A-CS06352 2 Chipset Maker Please contact us. 3 Application Suitable for application processor with wider temperature range. 4 Chipset Name Please contact us. 5 **NDK Specification Number** EXS00A-CS06352 6 Type NX2520SD **Electrical Characteristics** 7 7.1 Nominal Frequency (f_{nom}) 24.000 MHz 7.2 Overtone order **Fundamental** ±15 ×10⁻⁶ (at +25 °C) 7.3 Adjustment tolerance ±15 ×10⁻⁶ (at -30 to +85 °C) 7.4 Tolerance over the temperature range 50 Ω Max. 7.5 Equivalent Series Resistance (R_r) 7.6 200 μW Maximum Drive Level $\pm 5 \times 10^{-6}$ / Year 7.7 Aging (at +25 °C) 8 Measurement Circuit 8.1 Frequency Measurement Measuring Instrument IEC π -Network 8.1.1 8.1.2 Load Capacitance (C_L) 12 pF 10 μW 8.1.3 Level of Drive 8.2 **Equivalent Resistance Measurement** 8.2.1 Measuring Instrument IEC π -Network 8.2.2 Load Capacitance (C_L) Series 10 µW 8.2.3 Level of Drive 9 Operating Temperature Range -30 to +85 °C 10 Storage Temperature Range -40 to +85 °C 11 Dimension (Unit: mm) Land pattern (Typical) [TOP VIEW] TERMINAL LAND CONNECTIONS 2.5 +/-0.1 -0.1 3 Terminal #1 and #3 : Xtal Terminal #2 and #4 : GND (Connection Cover 1.7 Cover BASE Alumina Ceramics C 0.3 Tungsten Metalize (Au plating on Ni plating)