Specification of Quartz Crystal Units



1 **NDK Part Number** NX3225GA-26.000MHz-EXS00A-CG01972 2 **NDK Specification Number** EXS00A-CG01972 3 NX3225GA Type 4 Chipset Maker **TEXAS INSTRUMENTS** 5 Application Smart meter, Zigbee 6 **Chipset Name** NA 7 Chipset Number Smart meter: CC430, Zigbee:CC1101 8 End User Smart Grid market 9 **Electrical Characteristics** Nominal Frequency (f_{nom}) 26.000 MHz 9.1 9.2 Overtone order **Fundamental** $\pm 20 \times 10^{-6} \text{ max.} (+25 °C)$ 9.3 Frequency Tolerance $\pm 40 \times 10^{-6} \text{ max.} (-40 \sim +85 \,^{\circ}\text{C})$ Frequency Versus 9.4 **Temperature Characteristics** The reference temperature shall be +25 °C 9.5 Equivalent Series Resistance (R_r) $50~\Omega$ max. 9.6 Shunt Capacitance (C₀) $1.2 \pm 0.3 pF$ Motional Capacitance (C₁) 4.8 fF ± 30 % 9.7 $7.8 \text{ mH} \pm 30 \%$ 9.8 Motional Inductance (L₁) $19.1 \times 10^{-6} / pF \pm 30 \%$ (where $C_L = 10 pF$) 9.9 **Pulling Sensitiviity** Maximum Drive Level 200 μW max. 9.10 Measurement Circuit 10 10.1 Frequency Measurement 10.1.1 Measuring Instrument π -network (IEC) 10.1.2 Load Capacitance (C_L) 10 pF 10 μW 10.1.3 Level of Drive 10.2 Equivalent Resistance Measurement 10.2.1 Measuring Instrument π -network (IEC) 10.2.2 Load Capacitance (C₁) Series 10.2.3 Level of Drive 10 μW 11 Operable Temperature Range -40 ~ +85 °C 12 Storage Temperature Range -40 ~ +85 °C 13 Dimension (Unit: mm) 3.2 ± 0.1 2.5 ± 0.7 **Terminal Land Connection** Land Pattern (Typical) (Top View) Cover max Alumina Ceramics Base TERMINAL Alumina Ceramics #1,#3:X'tal #2,#4:No Connection

Tungsten Metalize

Au plating on Ni pre plating Ni : plating 2 to $9\mu m$ Au : Plating 0.3 to $0.7\mu m$