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| 1      | NDK Part Number                              | NX3225GA-26.000MHz-EXS00A-CG01972  |
| 2      | NDK Specification Number                     | EXS00A-CG01972   |
| 3      | Type   | NX3225GA   |
| 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                   |  |
| 9.1    | Nominal Frequency ( $f_{nom}$ )              | 26.000 MHz   |
| 9.2    | Overtone order                               | Fundamental  |
| 9.3    | Frequency Tolerance                          | $\pm 20 \times 10^{-6}$ max. ( +25 °C )  |
| 9.4    | Frequency Versus Temperature Characteristics | $\pm 40 \times 10^{-6}$ max. ( -40 ~ +85 °C )<br>The reference temperature shall be +25 °C |
| 9.5    | Equivalent Series Resistance ( $R_r$ )       | 50 $\Omega$ max.   |
| 9.6    | Shunt Capacitance ( $C_0$ )                  | 1.2 $\pm$ 0.3 pF   |
| 9.7    | Motional Capacitance ( $C_1$ )               | 4.8 fF $\pm$ 30 %  |
| 9.8    | Motional Inductance ( $L_1$ )                | 7.8 mH $\pm$ 30 %  |
| 9.9    | Pulling Sensitivity                          | 19.1 $\times 10^{-6}$ /pF $\pm$ 30 % ( where $C_L = 10$ pF )                               |
| 9.10   | Maximum Drive Level                          | 200 $\mu$ W max.   |
| 10     | Measurement Circuit                          |  |
| 10.1   | Frequency Measurement                        |  |
| 10.1.1 | Measuring Instrument                         | $\pi$ -network (IEC)   |
| 10.1.2 | Load Capacitance ( $C_L$ )                   | 10 pF  |
| 10.1.3 | Level of Drive                               | 10 $\mu$ W   |
| 10.2   | Equivalent Resistance Measurement            |  |
| 10.2.1 | Measuring Instrument                         | $\pi$ -network (IEC)   |
| 10.2.2 | Load Capacitance ( $C_L$ )                   | Series   |
| 10.2.3 | Level of Drive                               | 10 $\mu$ W   |
| 11     | Operable Temperature Range                   | -40 ~ +85 °C   |
| 12     | Storage Temperature Range                    | -40 ~ +85 °C   |
| 13     | Dimension                                    |  |

(Unit: mm)

