Specification of Quartz Crystal Units



1NDK Part NumberSee table 12NDK Specification NumberSTD-CSR-13TypeNX3225SA

4 Electrical Characteristics

4.1 Nominal Frequency (f_{nom}) See table 1 4.2 Overtone order Fundamental

4.3 Frequency Tolerance $\pm 15 \times 10^{-6} \text{ max.} (+25 \,^{\circ}\text{C})$ 4.4 Frequency Versus $\pm 15 \times 10^{-6} \text{ max.} (-10 \sim +75 \,^{\circ}\text{C})$

Temperature Characteristics The reference temperature shall be +25 °C

4.5 Equivalent Series Resistance (R_r) See table 1

4.6 Shunt Capacitance (C_0) NA

4.7 Maximum Drive Level 200 μW max.

5 Measurement Circuit

5.1 Frequency Measurement

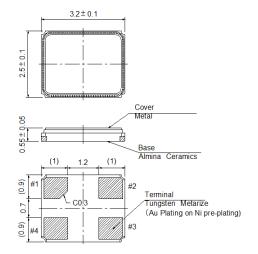
5.2 Equivalent Resistance Measurement

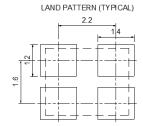
 $\begin{array}{lll} 5.2.1 & \text{Measuring Instrument} & \pi\text{-network} \\ 5.2.2 & \text{Load Capacitance} \ (C_L) & \text{Series} \\ 5.2.3 & \text{Level of Drive} & 10 \ \mu\text{W} \end{array}$

6 Operable Temperature Range $-10 \sim +75$ °C 7 Storage Temperature Range $-40 \sim +85$ °C

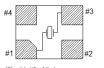
8 Dimension

(Unit: mm)





Terminal Land
Connection (TOP VIEW)



#1,#3 : Xtal
#2,#4 : GND (CONNECTION COVER)

Table1

$R_r(\Omega)$ max.	NDK Part Number
100	NX3225SA-12.000M-STD-CSR-1
80	NX3225SA-13.560M-STD-CSR-1
80	NX3225SA-14.31818M-STD-CSR-1
80	NX3225SA-16.000M-STD-CSR-1
80	NX3225SA-16.384M-STD-CSR-1
80	NX3225SA-18.432M-STD-CSR-1
80	NX3225SA-18.870M-STD-CSR-1
50	NX3225SA-20.000M-STD-CSR-1
50	NX3225SA-22.000M-STD-CSR-1
50	NX3225SA-22.5792M-STD-CSR-1
50	NX3225SA-24.000M-STD-CSR-1
50	NX3225SA-24.576M-STD-CSR-1
50	NX3225SA-25.000M-STD-CSR-1
50	NX3225SA-26.000M-STD-CSR-1
50	NX3225SA-27.000M-STD-CSR-1
50	NX3225SA-27.120M-STD-CSR-1
50	NX3225SA-28.63636M-STD-CSR-1
50	NX3225SA-30.000M-STD-CSR-1
50	NX3225SA-32.000M-STD-CSR-1
50	NX3225SA-36.000M-STD-CSR-1
50	NX3225SA-40.000M-STD-CSR-1
50	NX3225SA-44.000M-STD-CSR-1
50	NX3225SA-48.000M-STD-CSR-1
50	NX3225SA-54.000M-STD-CSR-1
	100 80 80 80 80 80 80 80 80 50 50 50 50 50 50 50 50 50 5