

1	NDK Part Number	NX3215SA-32.768K-STD-MUA-9
2	NDK Specification Number	STD-MUA-9
3	Type	NX3215SA
4	Electrical Characteristics	
4.1	Nominal Frequency (f_{nom})	32.768 kHz
4.2	Overtone order	Fundamental
4.3	Frequency Tolerance	$\pm 20 \times 10^{-6}$ max. (+25 °C)
4.4	Turning Point	+ 25°C \pm 5°C
4.5	Temperature coefficient	-0.04 $\times 10^{-6}$ / °C ² max.
4.6	Equivalent Series Resistance (R_r)	70 k Ω max.
4.7	Shunt Capacitance (C_0)	1.0 \pm 0.5 pF
4.8	Motional capacitance (C_1)	4.0 \pm 2.0 fF
4.9	Maximum Drive Level	0.5 μ W max.
5	Measurement Circuit	
5.1	Frequency Measurement	
5.1.1	Measuring Instrument	Network Analyzer (CNA-LF made in Transat corp.)
5.1.2	Load Capacitance (C_L)	9 pF
5.1.3	Level of Drive	0.1 μ W
5.2	Equivalent Resistance Measurement	
5.2.1	Measuring Instrument	Network Analyzer (CNA-LF made in Transat corp.)
5.2.2	Load Capacitance (C_L)	Series
5.2.3	Level of Drive	0.1 μ W
6	Operable Temperature Range	-40 ~ +85 °C
7	Storage Temperature Range	-40 ~ +85 °C
8	Aging (at +25 °C)	$\pm 3 \times 10^{-6}$ Max. / 1 year
9	Dimension	

(Unit: mm)

