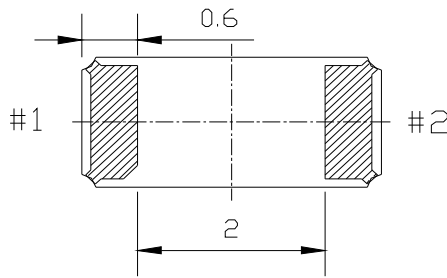
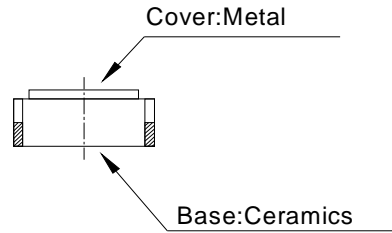
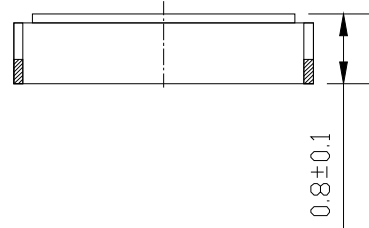
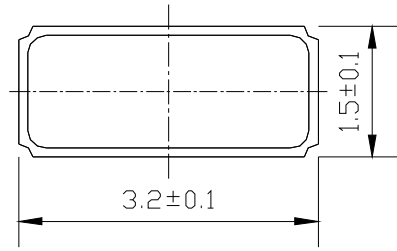
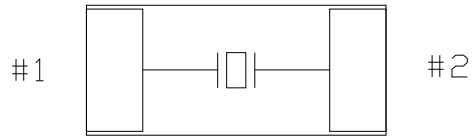


SPECIFICATION

1. Customer specifications number :
2. NDK specification number :
3. Type : NX3215SA
4. Electrical characteristics
 - 4.1. Nominal Frequency (F_0) : 32.768 kHz
 - 4.2. Overtone Order : Fundamental
 - 4.3. Adjustment Tolerance : $\pm 20 \times 10^{-6}$ Max. (at + 25 °C)
 - 4.4. Turning Point : + 25°C \pm 5°C
 - 4.5. Temperature coefficient : $-0.04 \times 10^{-6} / ^\circ\text{C}^2$ Max.
 - 4.6. Equivalent resistance (R_1) : 70 k Ω Max.
 - 4.7. Shunt capacitance (C_0) : 1.0 ± 0.5 pF
 - 4.8. Motional capacitance ($C1$) : 4.0 ± 2.0 fF
 - 4.9. Insulation resistance : Terminal to terminal insulation resistance
also terminal to cover insulation resistance
must be 500M Ω (min) when DC100V \pm 15V
is applied.
5. Measurement circuit
 - 5.1. Frequency measurement
 - Measuring instrument : Network Analyzer
(CNA-LF made in Transat corp.)
 - Load capacitance : 7 pF
 - Level of drive : 0.1 μ W
 - 5.2. Equivalent resistance measurement
 - Measuring instrument : Network Analyzer
(CNA-LF made in Transat corp.)
 - Load capacitance : Series
 - Level of drive : 1.0 μ W
6. Other performances
 - 6.1. Operating temperature range : - 40 to + 85 °C
 - 6.2. Storage Temperature range : - 40 to + 85 °C
 - 6.3. Maximum Drive Level : 0.5 μ W Max.
 - 6.4. Aging (at +25 °C) : $\pm 3 \times 10^{-6}$ Max. / 1 year



INTERNAL CONNECTION (TOP VIEW)



Recommended soldering pattern

