

## SPECIFICATION

Customer: \_\_\_\_\_

Item:	CRYSTAL UNIT
Type:	NX2016SA
Nominal Frequency:	38.4.000 MHz
Customer's Spec. No.:	---
NDK Spec. No.:	S1-4085-2010-10

Receipt

Charge:

Sales		
Engineer		

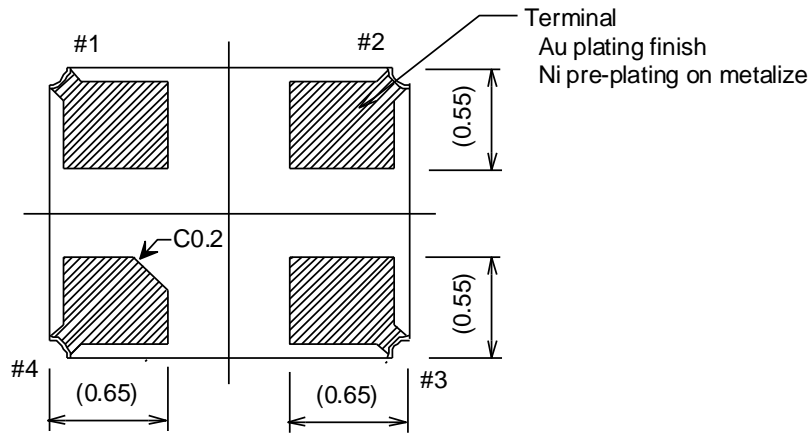
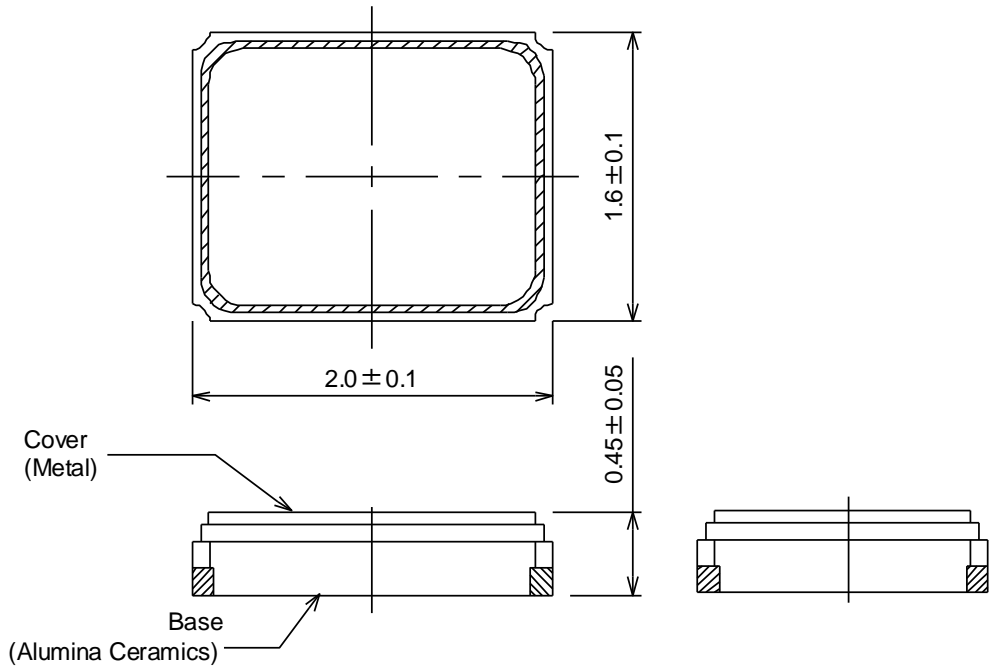
Approved \_\_\_\_\_

Checked \_\_\_\_\_

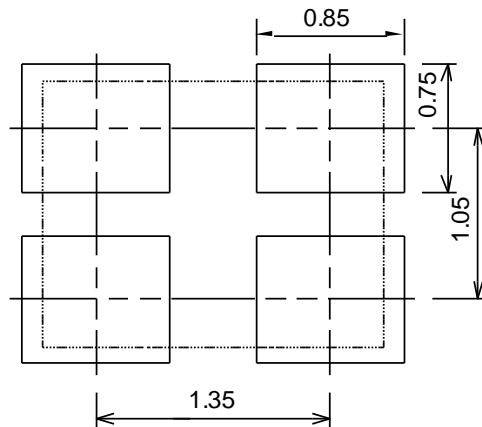
Drawn \_\_\_\_\_

Revision Record				
Rev.	Rev. Date	Items	Contents	Remarks
---	14.Dec.2021	Issue	---	---

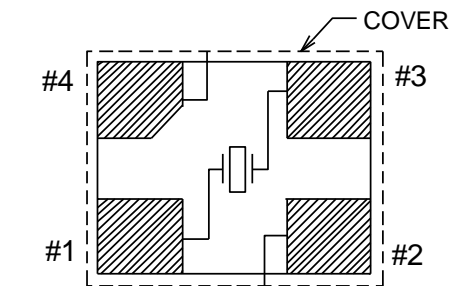
1. Customer specifications number	: ---
2. NDK specification number	: S1-4085-2010-10
3. Type	: NX2016SA
4. Electrical characteristics	
4.1. Nominal frequency ( $F_0$ )	: 38.400 MHz
4.2. Overtone order	: Fundamental
4.3. Adjustment Tolerance	: $\pm 10 \times 10^{-6}$ Max. (at + 25 °C )
4.4. Frequency stability over temperature	: $\pm 20 \times 10^{-6}$ Max. (at - 40 to + 85 °C ) The reference temp. shall be +25 °C
4.5. Equivalent resistance ( $R_1$ )	: 80 $\Omega$ Max.
4.6 Shunt capacitance ( $C_0$ )	: 3.0pF Max
4.7 Insulation resistance	: Terminal to terminal insulation resistance also terminal to cover insulation resistance must be 500M $\Omega$ (min) when DC100V $\pm 15$ V is applied.
4.8 Maximum drive level	: 10 $\mu$ W (100 $\mu$ W Max)
4.9. Frequency Aging(1Year)	: $\pm 2 \times 10^{-6}$ Max. (at + 25 °C )
5. Measurement circuit	
5.1. Frequency measurement	
· Measuring instrument	: IEC $\pi$ -Network
· Load capacitance	: 10 pF
· Level of drive	: 10 $\mu$ W
6. Other performances	
6.1. Air-tightness	: Less than $1.1 \times 10^{-9}$ Pa m <sup>3</sup> /s (Helium leak detector)
6.2. Operating Temperature range	: - 40 to + 85 °C
6.3. Storage Temperature range	: - 40 to + 85 °C



LAND PATTERN (TYPICAL)



PIN CONNECTION (TOP VIEW)



TERMINAL

#1, #3 : XTAL

#2, #4 : GND (CONNECTION WITH COVER)

