



Crystal Bridge to the Future

1. NDK Part Number : See table 1

2. NDK Spec. No. : See table 1

3. Type : NX3225GA

4. Electrical Specifications

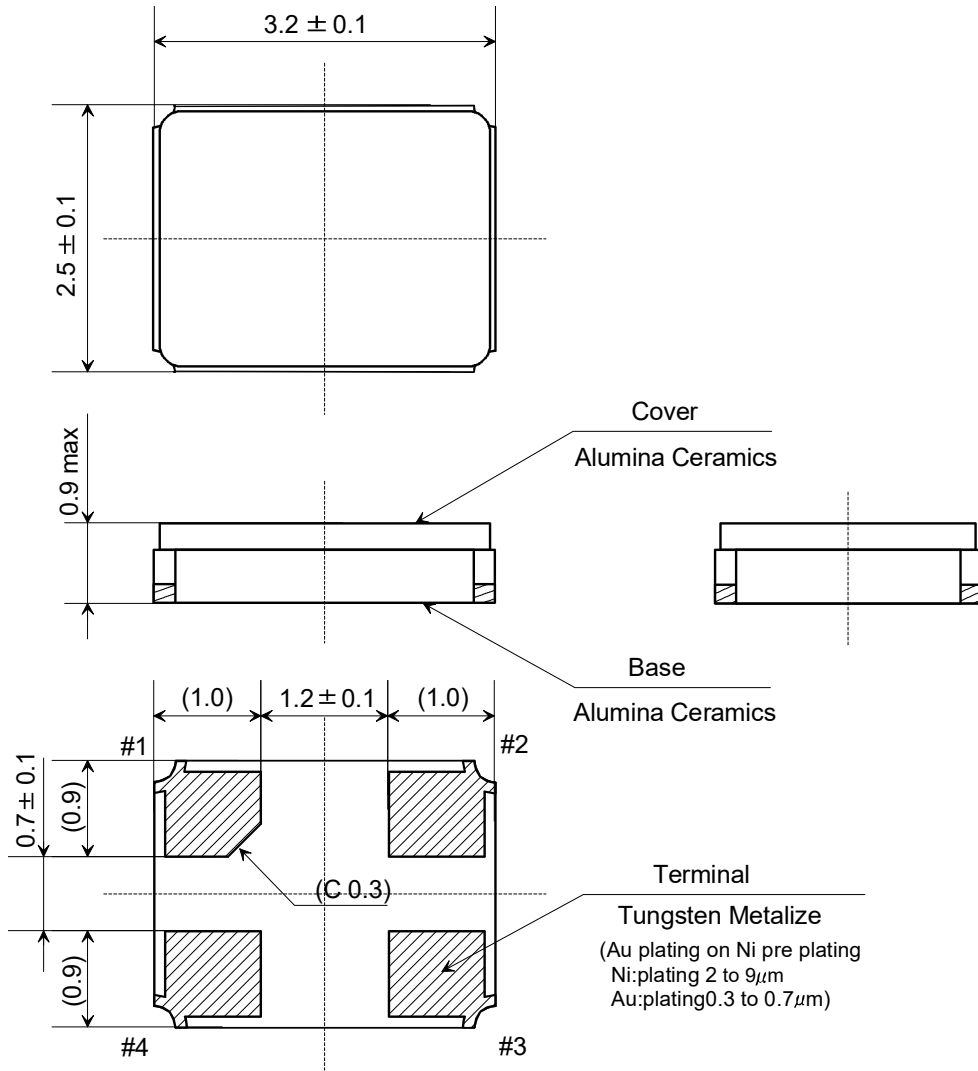
	Parameters	SYM.	Electrical Spec.				Notes
			min	typ	max	Units	
1	Nominal frequency	f_{nom}	See table 1			MHz	
2	Overtone order	-	Fundamental			-	
3	Frequency tolerance	-	-20	-	+20	$\times 10^{-6}$	at + 25°C
4	Frequency versus temperature characteristics	-	-30	-	+30	$\times 10^{-6}$	at -10~+70°C The reference temperature shall be +25°C
5	Equivalent resistance	-	-	-	See table 1	Ω	IEC PI-network/Series
6	Load capacitance	C_L	-	8	-	pF	IEC PI-network
7	Level of drive	-	-	10	200	μW	
8	Operating temperature range	T_{opr}	-10	-	+70	°C	
9	Storage temperature range	T_{str}	-40	-	+85	°C	
10	Insulation resistance	-	500	-	-	$M\Omega$	When terminal to terminal and terminal to cover were applied at DC100V \pm 15V.
11	Air-tightness	-	-	-	3.0×10^{-9}	$Pa\ m^3/s$	

Table 1

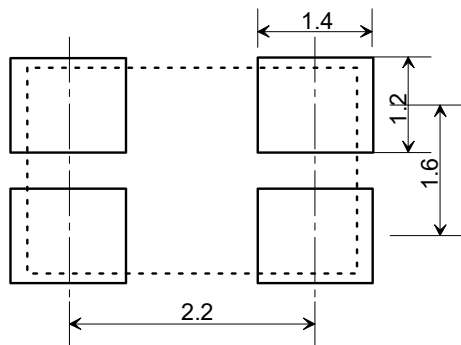
Fnom(MHz)	Rr(Ω) max.	NDK parts number
10.000	200	NX3225GA-10.000M-STD-CRG-1
12.000	100	NX3225GA-12MHZ-STD-CRG-1
14.31818	80	NX3225GA-14.31818M-STD-CRG-1
14.7456	80	NX3225GA-14.7456M-STD-CRG-1
16.000	80	NX3225GA-16.000M-STD-CRG-1
20.000	50	NX3225GA-20.000M-STD-CRG-1
25.000	50	NX3225GA-25.000M-STD-CRG-1
26.000	50	NX3225GA-26.000M-STD-CRG-1
27.000	50	NX3225GA-27.000M-STD-CRG-1
30.000	50	NX3225GA-30.000M-STD-CRG-1

Dimension drawing

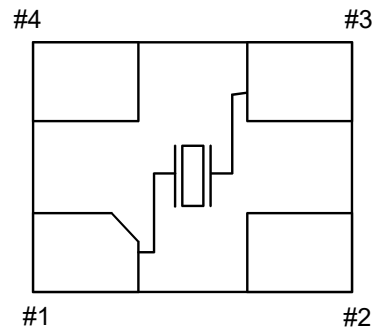
Unit : mm
Tolerance : +/-0.1 mm



LAND PATTERN (Recommended)



TOP VIEW PIN CONNECTION



TERMINAL
#1,#3:X'tal
#2,#4:No Connection