Crystal Bridge to the Future

RoHS Compliant
Directive 2011/65/EU

SPECIFICATION

Customer:

Item: Crystal Unit

Type: NX3225SA

Nominal Frequency: 13.1072 MHz

Customer's Spec. No.:

NDK Spec. No.: NX3225SA-13.1072MHZ S1-4085-2010-12

Receipt

Revision Record

Rev.	Date	Items	Contents	Approved	Checked	Drawn

NIHON DEMPA KOGYO CO., LTD.

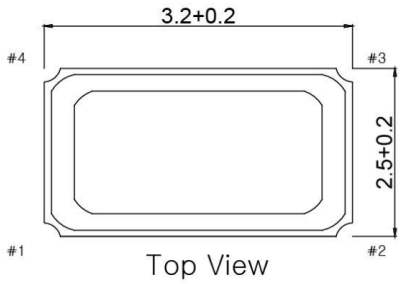
1. Customer's Spec. No. :

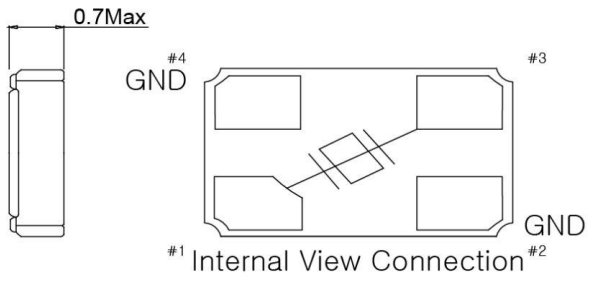
2. NDK Spec. No. : NX3225SA-13.1072MHZ S1-4085-2010-12

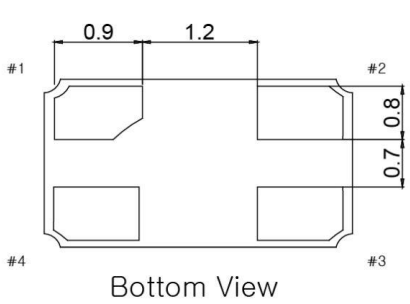
3. Type : NX3225SA

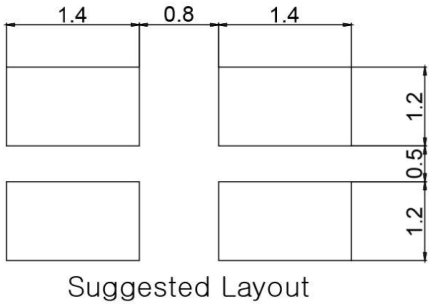
4. Electrical Specifications

	Parameters	SYM.	Electrical Spec.				Notes
			min	typ	max	Units	
1	Nominal frequency	f_{nom}	13.1072			MHz	
2	Overtone order	-	Fundamental			-	
3	Frequency tolerance	-	-10	-	+10	$\times 10^{-6}$	at + 25°C
4	Frequency versus temperature characteristics	-	-20	-	+20	$\times 10^{-6}$	at -40~+85°C The reference temperature shall be +25°C
5	Frequency Aging(at +25°C)	-	-2	-	+2	$\times 10^{-6}$	years
6	Equivalent resistance	-	-	-	80	Ω	IEC PI-network/Series
7	Load capacitance	C_L	-	12	-	pF	
8	Level of drive	-	-	10	200	μW	
9	Shunt Capacitance	Co	-		3.0	pF	
10	Motional Capacitance	C1			N/A	fF	
11	Operating temperature range	T_{opr}	-40	-	+85	°C	
12	Storage temperature range	T_{str}	-40	-	+85	°C	
13	Insulation resistance	-	500	-	-	MΩ	When terminal to terminal and terminal to cover were applied at DC100V ±15V.



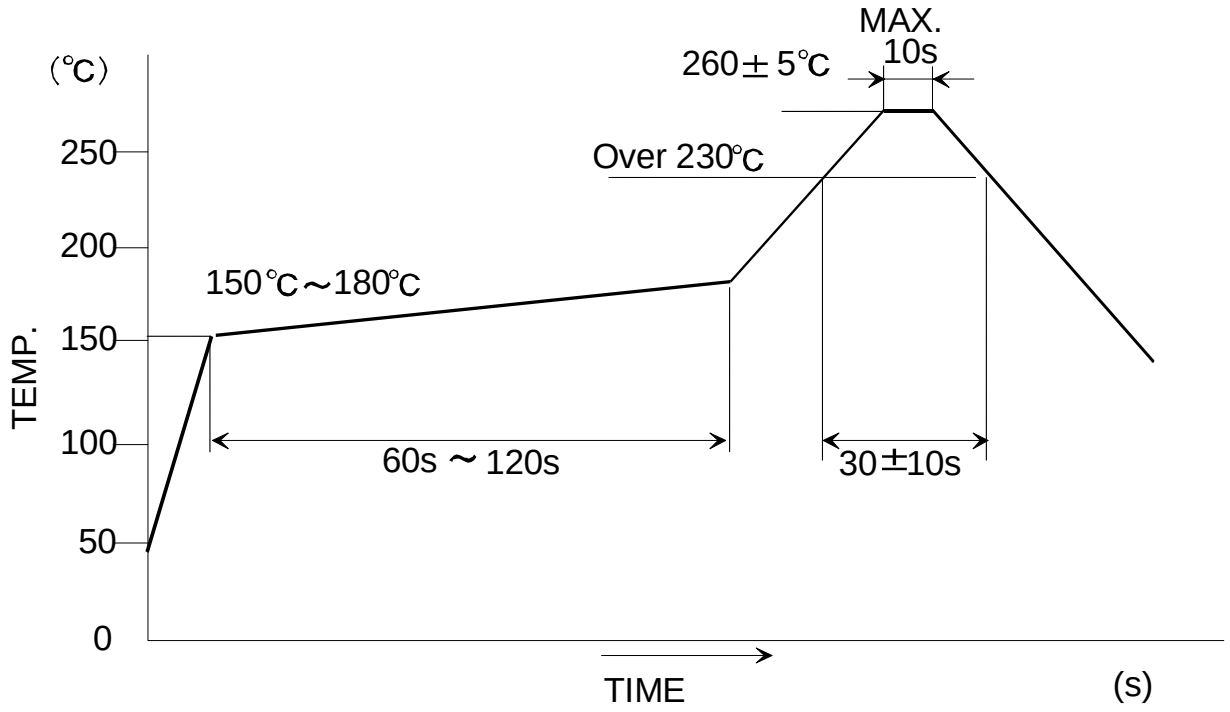






Marking information
1. XX.XXX : Frequency
2. YYWW : Product Code
(Year / week code)

Recommendation reflow condition



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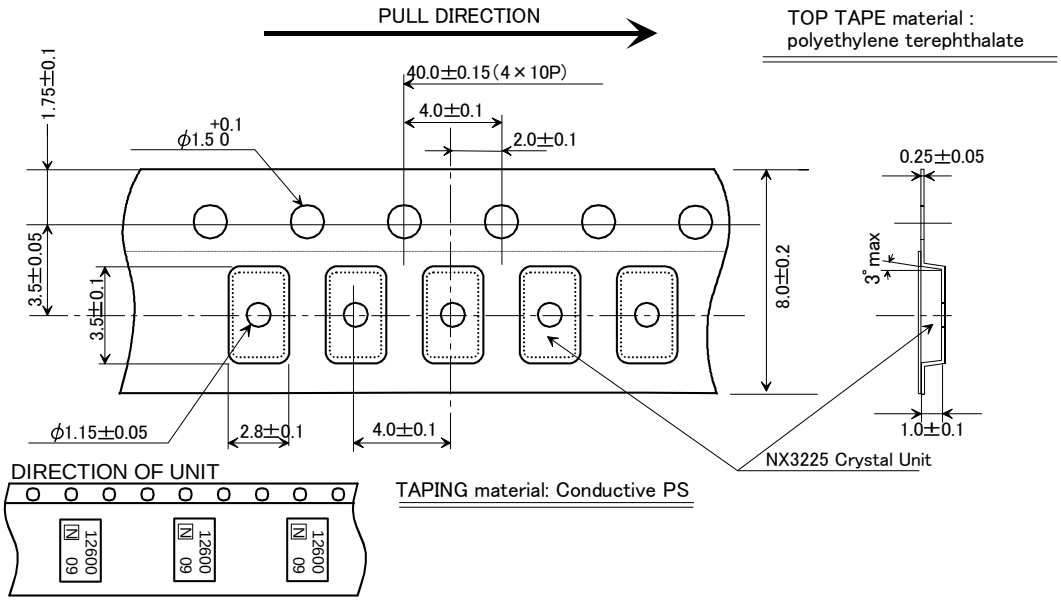
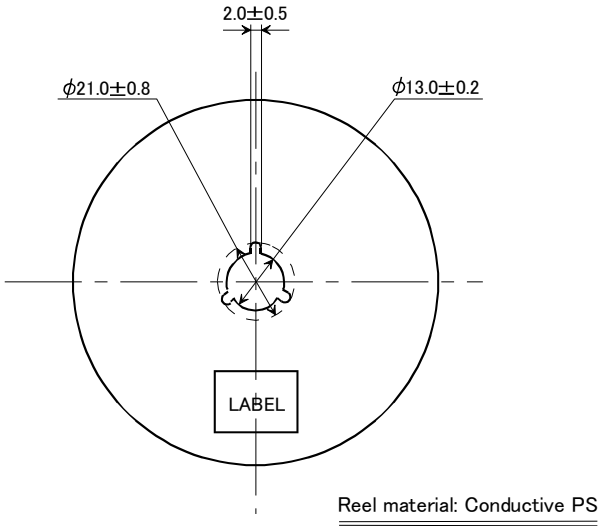
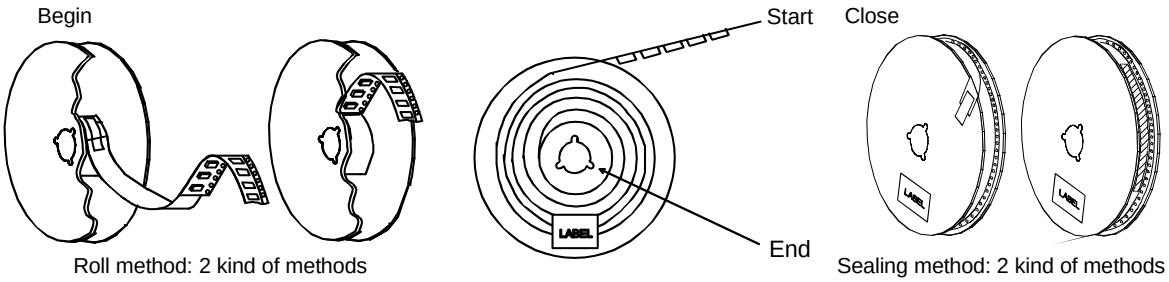

PULL DIRECTION
TOP TAPE material :
polyethylene terephthalate
40.0±0.15(4×10P)
4.0±0.1
2.0±0.1
1.75±0.1
φ1.5 +0.1 0
3.5±0.05
3.5±0.1
8.0±0.2
0.25±0.05
3° max
φ1.15±0.05
2.8±0.1
4.0±0.1
1.0±0.1
NX3225 Crystal Unit
DIRECTION OF UNIT
TAPING material: Conductive PS


2.0±0.5
φ21.0±0.8
φ13.0±0.2
LABEL
φ180 0 -1.5
φ60 +1 0
9.0 +0.3 0
11.4±1.0
Reel material: Conductive PS
EIAJ standard reel


Begin
Start
Close
End
LABEL
Roll method: 2 kind of methods
Sealing method: 2 kind of methods
3000pcs-Product Tape