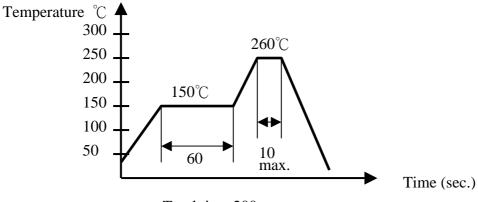
XTAL 3.8*8 SMD 32.768KHZ 12.5pf

P/N: NXZ32.768KAE125F-KAB3

1.ELECTRIC CHARACTERISTICS:

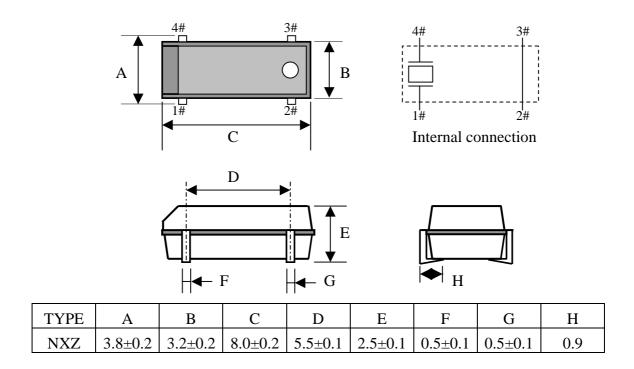
PARAMETERS		NXZ SMD(KAB3)	
Mode of Vibration		+2° X-cut , Fundamental	
Nominal frequency	F	32768Hz	
Load Capacitance	CL	12.5 PF Typical	
Frequency Tolerance at 25℃		± 20 ppm	
Series Resistance	Rr	35 ΚΩ Max	
Quality Factor	Q	40K Min	
Turnover Temperature	To	25 ℃±5℃	
Temperature Coefficient	K	-0.035 ppm/°C² Typical	
Operation Temperature		-40 °C ~ +85°C	
Shunt Capacitance	Co	1.6PF Typical	
Aging 1st Year	$\Delta f/f$	± 5 ppm max.	
Shock Resistance		± 5 ppm max.	
Capacitance Ratio	Co/C	520 Typical	
Insulation Resistance		500M Ω at DC 100V \pm 15V	
Drive Level		1 μW	

2.REFIOW SOLDERING PROFILE:

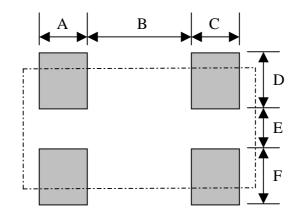


Total time 200sec. max.

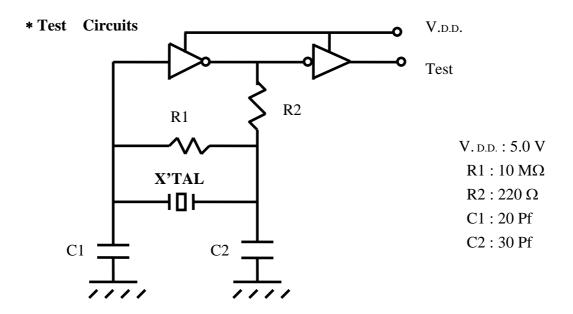
3.DIMENSION:



4.LAND PATTERN LAYOUT: (EXAMPLE)



TYPE	A	В	С	D	Е	F
NXZ	1.3	4.2	1.3	1.9	1.3	1.9



5. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS:

5-1. Humidity

Subject the crystal at $40^\circ\text{C} \pm 2^\circ\text{C}$ and 90% - 95% RH for 96 ± 4 hours . Then release the crystal into the room conditions for 1 hour prior to the measurement .

5-2. High Temperature Exposure

Subject the crystal to $85^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 96 ± 4 hours. Then release the crystal into the room conditions for 1 hour prior to the measurement.

5-3. Low Temperature

Subject the crystal to $-20^\circ\text{C} \pm 5^\circ\text{C}$ for 96 ± 4 hours. Then release the crystal into the room conditions for 1 hour prior to the measurement .

5-4. Mechanical Shock

Drop the crystal randomly onto a concrete floor from the height of 75cm 3 times.

5-5. Temperature Cycling

Subject the crystal to -30°C for 30 min. followed by a high temperature of $+85^{\circ}\text{C}$ for 30 min. Cycling shall be repeated 5 times with a transfer time of 15 sec. at the room condition . Then release the resonator into the room temperature for 2 hours prior to the measurement .

5-6. Vibration

Subject the crystal to vibration for 2 hours each in x, y, and z axes with the amplitude of 1.5mm, the frequency shall be varied uniformly between the limits of 10-55~Hz.

5-7. Resistance to Solder Heat

Dip the crystal terminals no closer than 2 mm into the solder bath $260^{\circ}\text{C}\pm5^{\circ}\text{C}$ for 5 ± 1 sec; Then release the crystal into the room temperature for 1 hour prior to the measurement .

5-8. Solder Ability

Dip the crystal terminals no closer than 2 mm into the solder bath at $235^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 3 ± 0.5 sec. . more than 95 % of the terminal surface of the crystal shall be covered with fresh solder.

5-9. Lead Fatigue

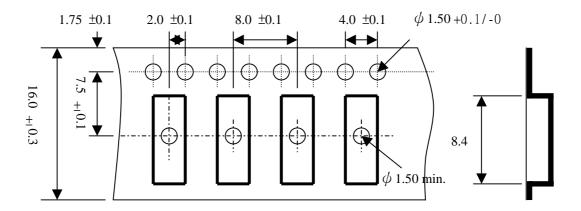
1) Pulling Test

Weight along with the direction of terminals without any shock 0.5kg for 10 ± 1 sec.; The crystal shall no evidence of damage and shall fulfill all the initial electric characteristics $^{\circ}$

2) Bending Test

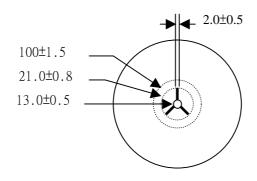
Lead shall be subject to withstand against 90 degree bending at its stem • This operation shall be done towards both direction; The crystal shall no evidence of damage and shall fulfill all the initial electric characteristics °

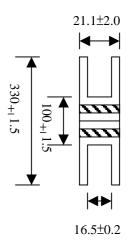
6. TAPE AND REEL DIMENSIONS:





W	16.0 ±0.3
A0	4.05 ±0.1
B 0	8.4 ±0.1
К0	2.9 ±0.1





- 1. 10 sprocket bole pitch cumulative tolerance ± 0.2
- 2. Carrier camber is within 1 mm in 250 mm
- 3. Material: Transparent Polystyrene Alloy (UP-6100)
- 4. All dimensions meet EIA-48I-B requirements
- 5. Thickness: $0.35 \pm 0.05 \text{ mm}$
- 6. Packing length per 22" reel: 62.5Meters
- 7. Component load per 13" reel:1000 pcs