



请承认书

Version No.: V2.1

常州昊翔电子有限公司

Changzhou HaoXiang Electronic Co., LTD

客户名称

CUSTOMER NAME: _____

产品名称

COMMODITY : PIEZO BUZZER

产品型号

MODEL NO : TDA-13240PB

客户料号

PART NO : _____

审核

秦皓

主办

唐俐雅 May.23,2019

客户承认栏

承认

拒收

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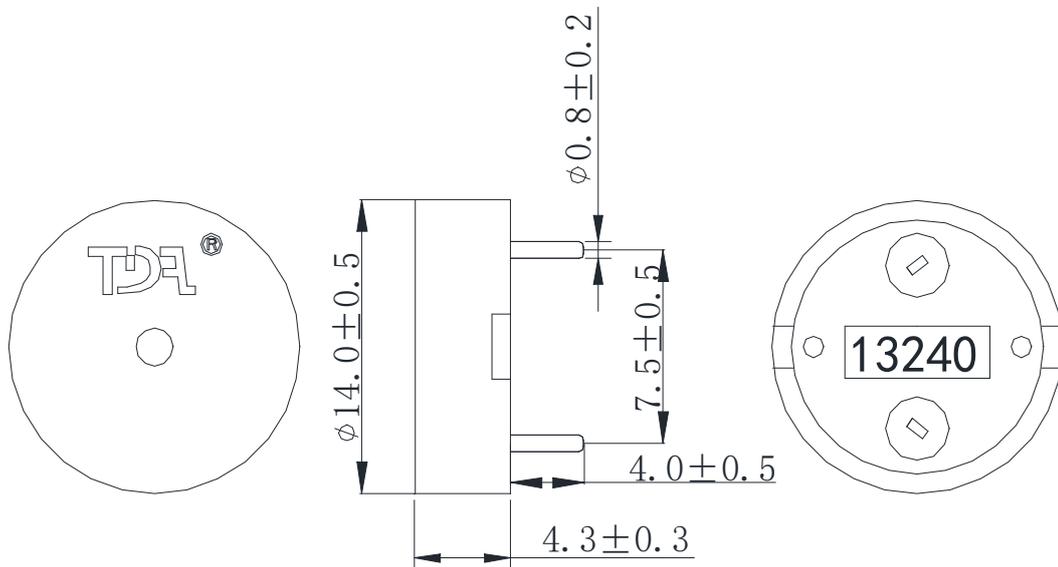
A. SCOPE

This specification applies piezo buzzer, **TDA-13240PB**

B. SPECIFICATION

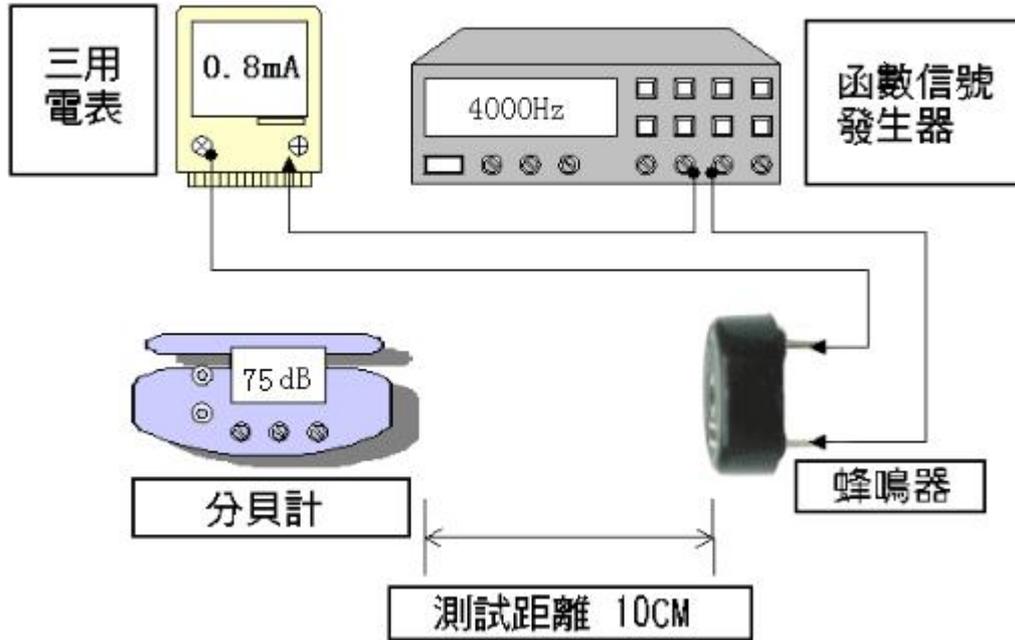
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	square wave
2	Operating Voltage	Vp-p	30 max	
3	Current Consumption	mA	MAX. 2	at 5Vp-p
4	Sound Pressure Level	dB	MIN. 75	at 10cm 5Vp-p 4000Hz
5	Operating Temperature	°C	-40 ~ +85	
6	Storage Temperature	°C	-40 ~ +85	
7	Dimension	mm	ø14.0xH4.3	See appearance drawing
8	Weight (MAX)	gram	0.72	
9	Housing Material		PBT	
10	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
11	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING

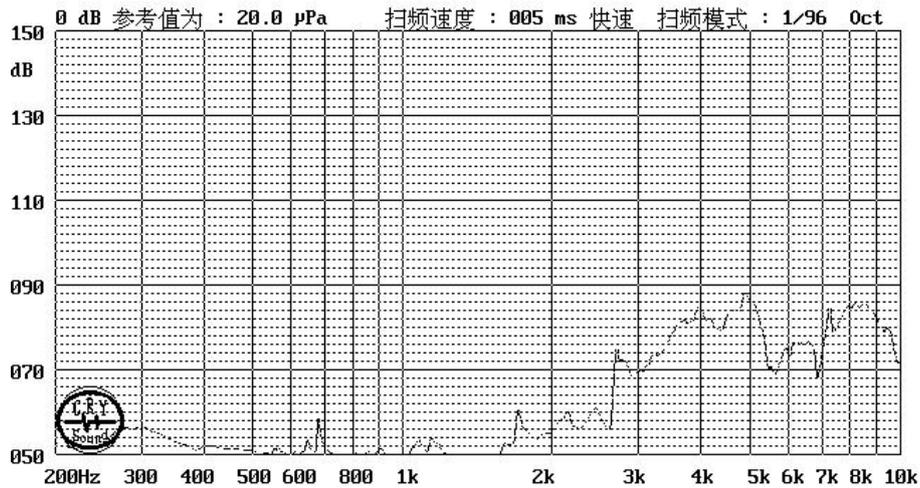


Unit:mm

D. RECOMMEND DRIVING CIRCUIT



E.TYPICAL FREQUENCY RESPONSE CURVE



F.MECHANICAL CHARACTERISTICS

NO	Item	Test Condition	Evaluation standard
1	Solderability	Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of $250\pm 2^{\circ}\text{C}$ for less than 3seconds.	95%min stripped wires shall be wet with solder.(except the edge of terminal)
2	Soldering Heat Resistance	Stripped wires are immersed up to 1.6mm from insulation in solder bath of $260\pm 2^{\circ}\text{C}$ for 10seconds.	No abnormality except terminal
3	Dropping	Drop on a hard wood board of 4cm thick 2 times in 3 axes(X,Y,Z),(a total of 6 times) at the height of 75cm .	No abnormality except terminal
4	Vibration	Buzzer shall be measured after being applied vibration of 1.52mm with 10 to 55Hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.	The value of oscillation frequency and current consumption should be in $\pm 10\%$ compared with initial ones. The SPL should be in $\pm 10\text{dB}$ compared with initial one.

G. ENVIRONMENT TEST

NO	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +85°C for 240 hours.	Being placed for 4 hours at 25°C, buzzer shall be measured. The value of oscillation frequency and current consumption should be in ±10% compared with initial one. The SPL should be in ±10dB compared with initial one.
2	Low temp. test	After being placed in a chamber at -40°C for 240 hours.	
3	Humidity test	After being placed in a chamber at 60°C and 90-95% relative humidity for 240 hours.	
4	Thermal shock test	Submit to 5 cycles of the following sequence conditions in air: -40°C , 30min , +85°C , 30min	

H. RELIABILITY TEST

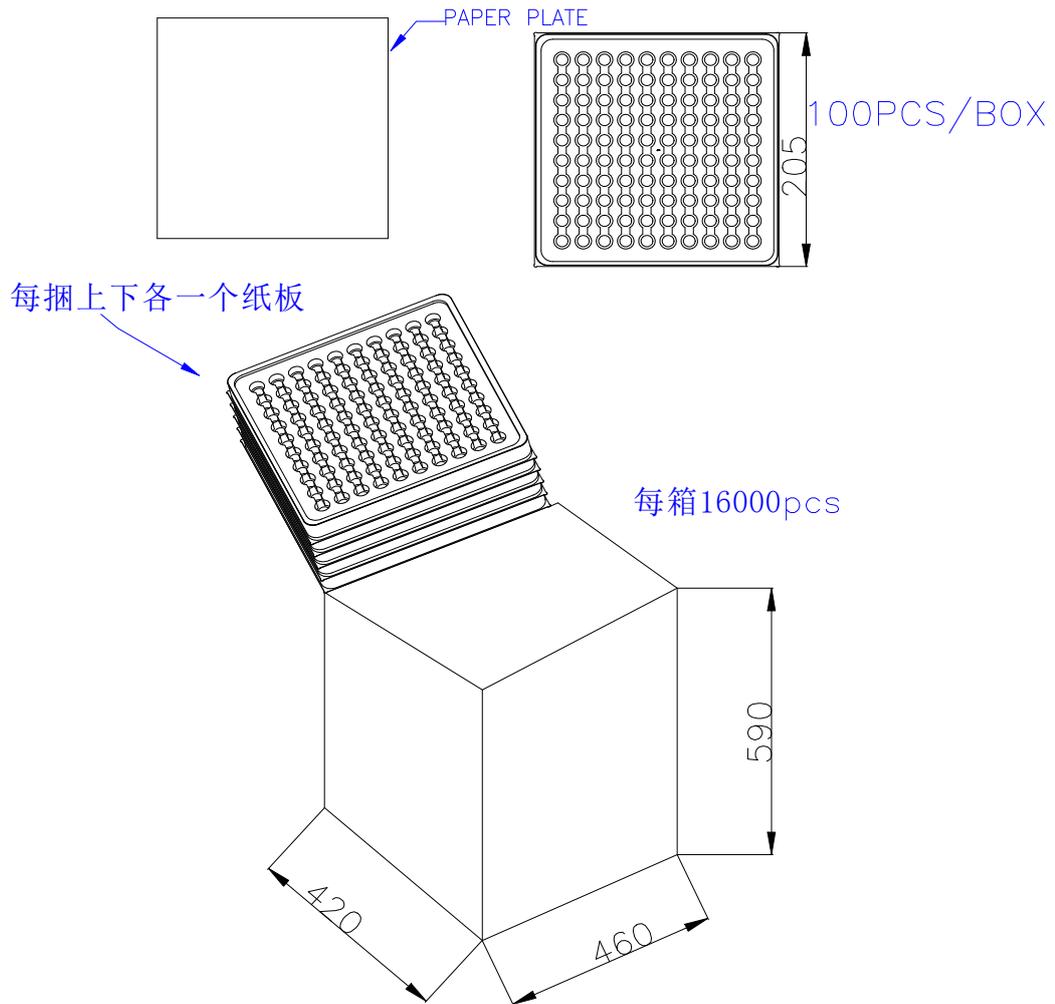
NO	Item	Test condition	Evaluation standard
1	Operating life test	Supply 50% duty square-wave 20Vo-p 4.0KHz for 240 hours.	Being placed for 4 hours at 25°C, buzzer shall be measured. The value of oscillation frequency and current consumption should be in ±10% compared with initial one. The SPL should be in ±10dB compared with initial one.

TEST CONDITION

Standard Test Condition : a) Temperature : +5 ~ +35°C b) Humidity : 45-85% c) Pressure : 860-1060mbar

Judgment Test Condition: a) Temperature : +25 ± 2°C b) Humidity : 60-70% c) Pressure : 860-1060mbar

I. PACKING STANDARD



J. NOTE CAUTIONS

- a. Can not be applied DC bias voltage and a sounding body or pronunciation elements, otherwise its insulation resistance will decrease and the use of performance degradation.
- b. Can not be imposed over pronunciation body or pronunciation components allows the use of voltage range of the voltage on the.
- c. Please pay attention in welding process, don't let soldering flux invasion into the sound chamber , otherwise flux can cause defect conduction.
- d. Use should handle with care, avoiding direct pressure contact, or inadvertently falling down, to prevent the occurrence of fault, or the generation characteristics of abnormal movements.

