

# 请承认书

Version No.: <u>V2.0</u>

	常	州	昊	翔	电	子	有	限	公	司
	Ch	angzho	ou <i>F</i>	<del>l</del> aoXi	ang	Elect	ronic	c C	o., L	.TD
	客	产户名	宮 称							
	CL	JSTOME	ER NA	MER:						
	7	品名	宮 称							
	CC	DMMOD	ITY	:		PIEZO	BUZZ	ZER		
	7	二品	型 号							
	M	ODEL N	0	:		TDA-	1424	10PE	3	
	客	产户制	斗 号							
	PA	IRT NO		:_			/			
	审	核		秦皓		主	办		唐俐雅	Jul.7,2018
								·		
			客	户	卢	美 认	柱	<u></u>		
		承	认				推	1	收	
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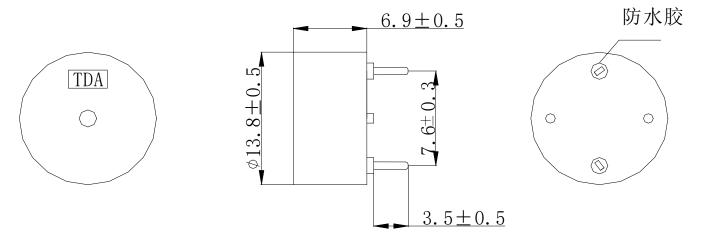
## A. SCOPE

This specification applies piezo buzzer, TDA-14240PB

## **B. SPECIFICATION**

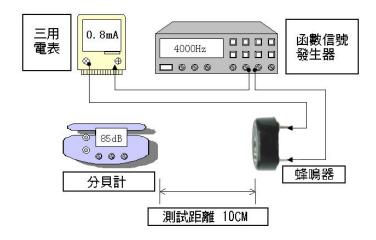
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	square wave
2	Operating Voltage	Vp-p	30 max	
3	Current Consumption	mA	MAX. 2	at 5Vp-p
4	Sound Pressure Level	dB	MIN. 80	at 10cm 5Vp-p 4000Hz
5	Operating Temperature	$^{\circ}\!\mathbb{C}$	-20 ~ +85	
6	Storage Temperature	$^{\circ}\!\mathbb{C}$	-30 ~ +85	
7	Dimension	mm	ø13.8xH6.9	See appearance drawing
8	Weight (MAX)	gram	1.2	
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 DIRVING CIRCUIT



## **E. 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 270±5℃ for 3±0.5 seconds.	90%min stripped wires shall be wet with solder.(except the edge of terminal)	
2	Soldering Heat Resistance	Stripped wires are immersed up to 1.5mm from insulation in solder bath of 300±5 $^{\circ}$ C for ±0.5 seconds or 260±5 $^{\circ}$ C for 10±1 seconds.	No interference in operation	
3		The force 10±1 seconds of 9.8N is applied to each terminal in axial direction	No damage and cutting off	
4	Vibration	Buzzer shall be measured after being applied vibration of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.		

### F. ENVIRONMENT TEST

NO	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at 85℃ for 96 hours	
2	Low temp. test	After being placed in a chamber at -30 ℃ for 96 hours	Being placed for 4 hours
3	Humidity test	After being placed in a chamber at 40°C and 85±5%	at 25℃,buzzer shall be
3		relative humidity for 96hours	measured. The value of
		85℃	oscillation frequency
	Temp. cycle test		and current
			consumption should be
		<u>25℃</u> 25℃	in ±10% compared with
4			initial one. The SPL
		- <u>20°</u>	should be in ±10dB
		0.5 0.5H 0.25 0.5H 0.5H 0.5H 0.25	compared with initial
			one.
		3hours	

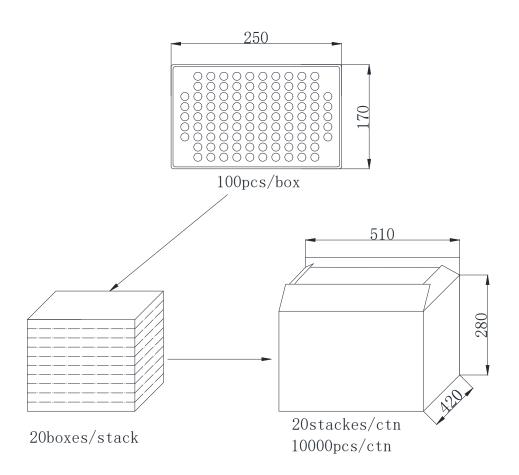
### **G. RELIABILTY TEST**

NO	Item	Item Test condition	
1	Operating life test	<ol> <li>Continuous life test         96 hours continuous operation at 60°C with maximum rated voltage applied.</li> <li>Intermittent life test         A duty cycle of 1 minute on, 5mintes off, a minimum of 1000 times at room temp.( 25±2°C) and maximum rated voltage applied</li> </ol>	frequency and current consumption should be in ±10% compared with

#### **TEST CONDITION**

**Standard Test Condition :** a) Temperature :  $+5 \sim +35^{\circ}$ C b) Humidity : 45-85% c) Pressure : 860-1060mbar **Judgment Test Condition:** a) Temperature :  $+25\pm2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar

#### H. PACKING STANDARD



#### I. 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.

#### J. NOTICE ON PRODUCT STORAGE

**a**. Please store the products in room where the temperature / humidity is stable. And avoid such places where there are large temperature changes. Please store the products under the following conditions :

Temperature: -10 to +40 (degree C)

Humidity: 15 to 85% R.H.

- **b**. Expire date (Shelf life) of the products is 6 months after delivery under the conditions of a sealed and an unopened package. Please use the products within 6 months after delivery. If you store the products for a long time (more than 6months), use carefully because the products may be degraded in the solder-ability and/or rusty. Please confirm solder-ability and characteristics for the products regularly.
- C. Please use the products immediately after the package is opened, because the characteristics may be reduced in quality, and/or be degraded in the solder-ability due to storage under the poor condition.

#### K. REVISION

No.	DATE	DESCRIPTION	REMARK	VERSION
1	2015.5.25	Initial condition	TDA-14240PB	V1.0
2	2015.5.26	Stitch length from 7.5 mm to 7.6 mm	TDA-14240PB	V1.1
3	2015.7.13	Height from 7.5mm to 6.9mm/Deviation from	TDA-14240PB	V1.2
		$\pm 0.2$ mm to $\pm 0.5$ mm		
4.	2015.7.21	Pin tolerance from 0.5mm to 0.3mm	TDA-14240PB	V1.3
5	2015.9.1	Increase the Waterproof glue product	TDA-14240PB	V1.4
6	Jul.7,2018	Version upgrade	TDA-14240PB	V2.0