

# 请承认书

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

常	计州	昊	翔	电	子	有	限(	公言	司
Ch	angzho	ou H	laoXid	ang	Elect	ronic	Co	., L	ΓD
	产户名								
CL	JSTOM	ER NAI	MER:						
产	品名	名 称							
CC	DMMOD	ITY	•		PIEZO	BUZZ	ZER		
产	品型	型 号							
M	ODEL N	0	•		TDA	-45	D1		
客	产户制	斗 号							
P.A	ART NO		:						
审	核		秦皓		主	办	唐	利雅 Au	g.16,2018
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常	州	昊	翔	电	子	有	限	公	司
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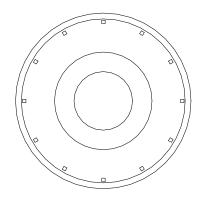
## A. SCOPE

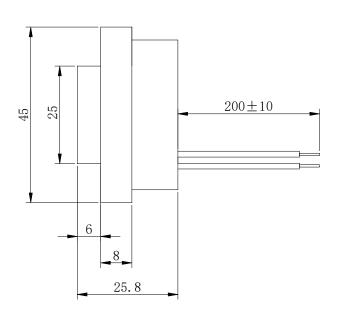
This specification applies piezo buzzer, TDA-45D1

## **B. SPECIFICATION**

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2900±500	square wave
2	Operating Voltage	Vdc	3~25	
3	3 Rated Voltage		12	
4	Current Consumption	mA	MAX. 35	at 12Vdc
5	Sound Pressure Level	dB	MIN. 105	at 30cm 12Vdc
6	Operating Temperature	$^{\circ}\!\mathbb{C}$	-20 ~ +60	
7	Storage Temperature	$^{\circ}\!\mathbb{C}$	-30 ~ +70	
8	Dimension	mm	Ø45xH25.8	See appearance drawing
9	Weight (MAX)	gram	22	
10	Housing Material		ABS	
11	Leading Pin		UL1007 26AWG	See appearance drawing
12	Environmental Protection Regulation		RoHS	

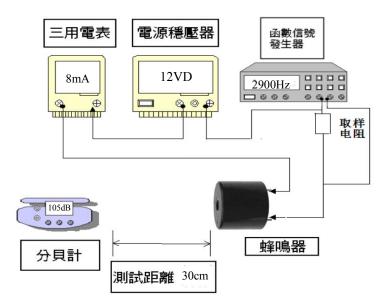
## **C. APPEARANCE DRAWING**





Unit:mm Tolerance : ±0.5mm

#### D. RECOMMEND DIRVING CIRCUIT



## **E. MECHANICAL CHARACTERISTICS**

NO	Item Test Condition		Evaluation standard		
1	Solderability	seconds and then immersed in solder bath of 270±5°C 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 $300\pm5$ °C for $\pm0.5$ seconds or $260\pm5$ °C for $10\pm1$ seconds.	No interference in operation		
3	Terminal Strength Pulling	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	High temp. test			
2	Low temp. test	After being placed in a chamber at -30 ℃ for 96 hours			
3	Humidity test	After being placed in a chamber at 40℃ and 85±5%	Being placed for 4 hours		
3		relative humidity for 96hours	at 25℃,buzzer shall be		
	Temp. cycle test	The part shall be subjected to 5 cycles. One cycle shall be	measured. The value of		
		consist of:	oscillation frequency		
		60℃	and current		
			consumption should be		
			in ±10% compared with		
4		<u>25℃</u> <u>25℃</u>	initial one. The SPL		
			should be in ±10dB		
		- <u>20℃</u> /	compared with initial		
		0.5 0.5H 0.25 0.5H 0.5H 0.5H 0.25	one.		
		→ 3hours →			

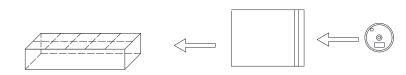
#### **G. RELIABILTY TEST**

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>	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**

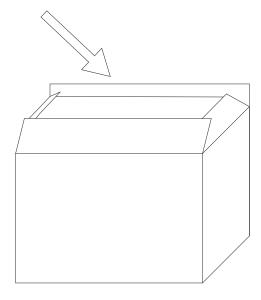
**Standard Test Condition :** a) Temperature :  $+5 \sim +35^{\circ}$ C b) Humidity : 45-85% c) Pressure : 860-1060mbar **Judgment Test Condition:** a) Temperature :  $+25\pm2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar

#### H. PACKING STANDARD



22\*19\*10cm small box

7\*10cm valve bag



#### NOTE:

1pcs per valve bag 20valve bag per inner box Tatal 700PCS per box Size 66.5\*32\*50cm

#### 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	Jan.24,2011	Initial condition	TDA-45D1	V1.0
2	Aug.16,2018	Version upgrade	TDA-45D1	V2.0