

# 请承认书

Version No.: V2.0

	常	<b>产州</b>	旲	翔	电	于	有	限	公可	司
	Ch	angzho	ou <i>F</i>	laoXi	ang	Elect	ronic	c Co	., L	TD
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		品名	名 称							
	CC	DWWOD	ITY	:	^	MAGNET	ΓΙC Βι	JZZER		
	7	二品	型 号							
	M	ODEL N	0	:		TDA-9	055-	55		
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	审	核		秦皓		主	办	建	予 <b>利雅</b> Au	ıg. 16, 2018
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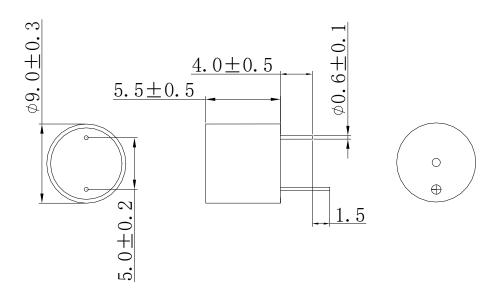
## A. SCOPE

This specification applies magnetic buzzer, **TDA-9055-5S** 

## **B. SPECIFICATION**

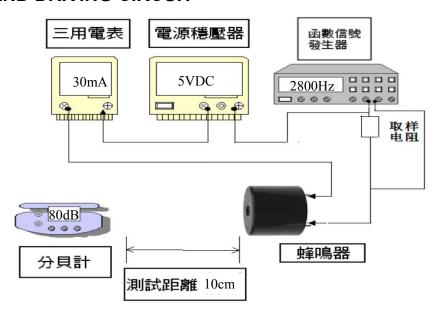
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2800±300	square wave
2	Operating Voltage	Vdc	3~9	
3	Rated Voltage	Vdc	5	
4	Current Consumption	mA	MAX. 30	At 5Vdc
5	Sound Pressure Level	dB	MIN. 80	at 10cm 5Vdc
6	Operating Temperature	$^{\circ}$	-30 ~ +70	
7	Storage Temperature	$^{\circ}\!\mathbb{C}$	-40 ~ +80	
8	Dimension	mm	Ø9.0xH5.5	See appearance drawing
9	Weight (MAX)	gram	1.0	
10	Housing Material		PBT( Black )	
11	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
12	Environmental Protection Regulation		RoHS	

## **C. APPEARANCE DRAWING**



Unit:mm Tolerance: ±0.5mm

## D. RECOMMEND DRIVING CIRCUIT



## **E. MECHANICAL CHARACTERISTICS**

NO	Item	Item Test Condition	
1	Solderability	scripped wires or lead wires are immersed in rosin for 5 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		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 at80℃ for 96 hours		
2	Low temp. test	After being placed in a chamber at -40 ℃ for 96 hours		
3	Humidity toot	After being placed in a chamber at 40°C and 85±5%	Being placed for 4 hours	
3	Humidity test	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	
		70℃	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>30°</u> C∕	compared with initial	
		0.5 0.5H 0.25 0.5H 0.5H 0.5H 0.25	one.	
		1		
		→ 3hours →		

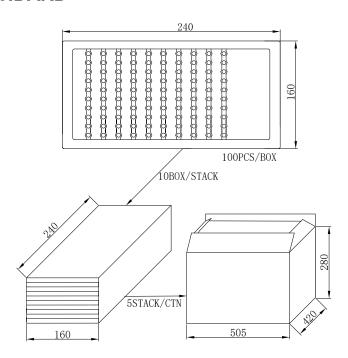
#### **G. RELIABILTY TEST**

NO	Item	Test condition	Evaluation standard	
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



#### **I.NOTE CAUTIONS**

- **a.** Please pay attention in welding process, don't let soldering flux invasion into the sound chamber, otherwise flux can cause defect conduction.
- b. 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.
  - C. This product is not dustproof, not waterproof, not resistance to dropping.

## 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	2015.06.27	Initial condition	TDA-9055-5S	V1.0
2	Aug.16,2018	Version upgrade	TDA-9055-5S	V2.0
3				