

请承认书

Version No.: V2.0

	常	子 州	旲	翔	电	于	有	尽	公	可	
	Cho	angzho	u H	aoXid	ing	Elect	ronic	Co).,	LTD	
	客	产户名	名 称								
	Cl	JSTOMI	ER NA	MER :						_	
	产	品名	名 称								
	C	DWWOD	ITY	:	/	MAGNET	TIC BU	JZZE	R	_	
		品型	型 号								
	M	ODEL N	10	:		TDA-1	2095	-55		_	
	客	产户制	斗 号								
	PA	ART NO		:							
				_						-	
	审	核		秦皓		主	办	Æ	手俐雅	Oct. 13, 201	8
			客	户	卢	美 认	栏				
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	常	州	昊	翔	电	子	有	限	公	司	
-	常	<u>州</u>	 声	翔	电	子	 有	限	公	 司	

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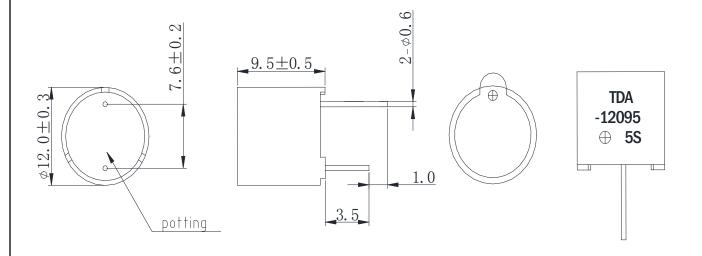
A. SCOPE

This specification applies magnetic buzzer, TDA-12095-5S

B. SPECIFICATION

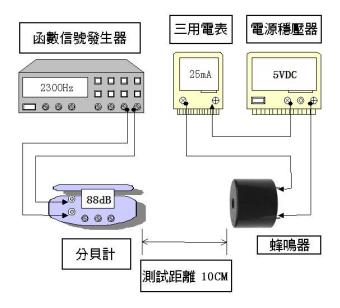
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2300±300	square wave
2	2 Operating Voltage		4~7	
3	Rated Voltage	Vdc	5	
4	Current Consumption	mA	MAX. 30	at 5Vdc
5	Sound Pressure Level	dB	MIN. 85	at 10cm 5Vdc
6	Operating Temperature	$^{\circ}$	-20 ~ +70	
7	Storage Temperature	$^{\circ}$	-40 ~ +80	
8	Dimension	mm	Ø12.0xH9.5	See appearance drawing
9	Weight (MAX)	gram	1.2	
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 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		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 at80℃ for 96 hours		
2	Low temp. test	After being placed in a chamber at -40 ℃ for 96 hours		
3	Humidity test	After being placed in a chamber at 40°C 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	
		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>20℃</u>	compared with initial	
		0.5 0.5H 0.25 0.5H 0.5H 0.5H 0.25	one.	
		1		
		◆ 3hours →		

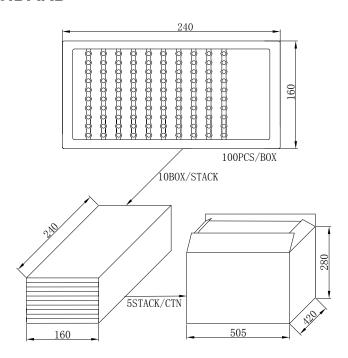
G. RELIABILTY TEST

NO	Item	Test condition	Evaluation standard	
1	Operating life test	 Continuous life test 96 hours continuous operation at 60°C with maximum rated voltage applied. 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 	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	2015.08.01	Initial condition	TDA-12095-5S	V1.0
2	2017.07.06	Add product typography	TDA-12095-5S	V1.1
3	Oct.13,2018	Version upgrade	TDA-12095-5S	V2.0