

请承认书

Version No.: V2.0

常	州	昊	翔	电	子	有	限	公	司
Chang	gzhou	ı Ho	aoXia	ing	Elec	troni	c (Co.,	LTD
客。	户名	3 称							
CUST	TOME	R NAM	MER :						_
<u> </u>	品名	3 称							
COM	MODI	ТУ	:_	SMD	MAG	NETI	C BU	ZZER	_
产。	品型	县 号							
WOD	EL NO)	:_	TD	A-MS	96050	DD-0)5 <i>S</i> 27	• —
客。	户彩	↓ 号							
PART	T NO		:_						_
审核	亥		秦皓		主	力	K	潘莲	Sep.11,2019
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		客	户	承	i i	人	<u></u>		
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常	州	昊	翔	电	子	有	ß	2 公	司

常州公司:

常

江苏省常州市戚区潞城镇富民路 286 号 TEL:86-519-8363089 13585451311

声

翔

TEL.00 319 0303009 1330343

州

FAX:86-519-88353844

 $E-mail: \underline{sales@tda-buzzer.com} \quad \underline{sales2@tda-buzzer.com}$

南通工厂:

子

电

江苏如皋市郭元镇工业园辰翔工业区 TEL:86-513-87910588 871919168

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公

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FAX:86-513-87915598

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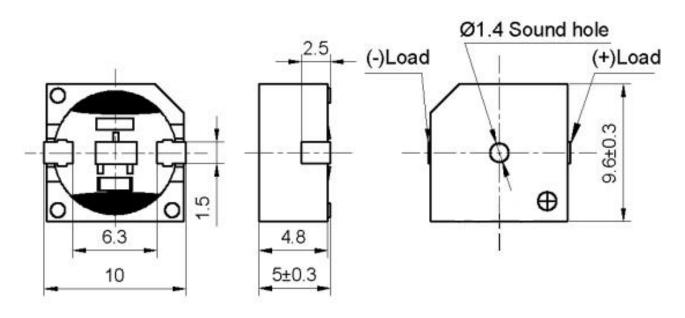
A. SCOPE

This specification applies magnetic buzzer, TDA-M96050D-05S27

B. SPECIFICATION

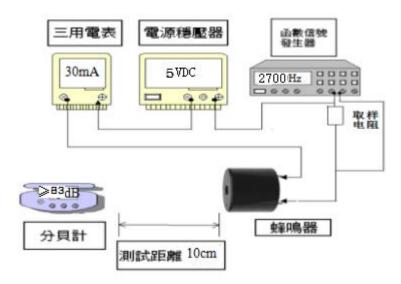
No.	Item	Unit	Specification	Condition
1	1 Oscillation Frequency		2700±300	Square Wave
2	Operating Voltage	VDC	4~6.5	
3	Rated Voltage	VDC	5	
4	Current Consumption	mA	MAX. 30	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 83	at 10cm at Rated Voltage
6	Operating Temperature	$^{\circ}\!\mathbb{C}$	-20 ~ +70	
7	Storage Temperature	$^{\circ}\!\mathbb{C}$	-30 ~ +80	
8	Dimension	mm	9.6 x9.6 x H5.0	See appearance drawing
9	Weight	gram	1.0	
10	Housing Material		LCP	
11	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
12	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING

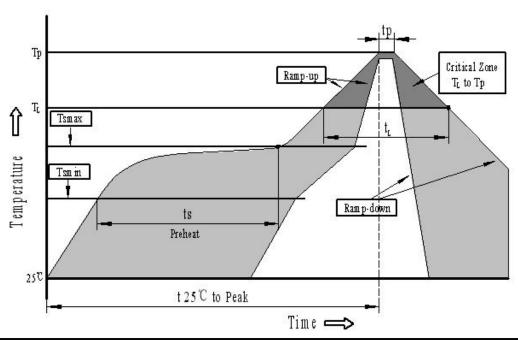


Unit:mm Tolerance: ±0.5mm

D. RECOMMEND DRIVING CIRCUIT



E.RECOMMENDED TEMP. PROFILE FOR REFLOW OVEN



Profile Feature	Pb-Free Assembly
Average ramp-up rate(T _L to Tp)	3°C/second max.
Preheat	
-Temperature Min.(Ts _{min})	150℃
-Temperature Min.(Ts _{max})	200℃
-Temperature Min.(ts)	60∼180 seconds
Ts _{max} to T _L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T _L)	217 ℃
-Time(T _L)	60∼150 seconds
Peak temperature(Tp)	245℃+0/-5℃
Time within 5℃of actual Peak temperature (tp)	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25℃ to Peak Temperature	8 minutes max.

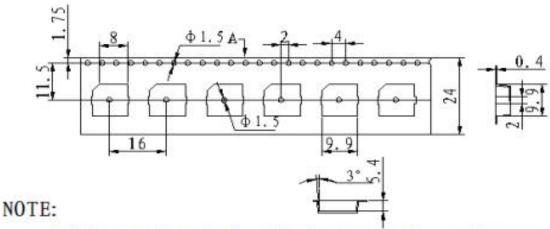
F. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMEN	IT
1	High Temperature Test (Storage)	After being placed in a chamber with +80℃ for 120 hours.	
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30℃ for 120 hours .	
3	Temp. Cycle	The part shall be subjected to 5 cycles. One cycle consisting of $-30\pm2^{\circ}$ C, 30 minutes $20\pm5^{\circ}$ C 15 minutes $80\pm2^{\circ}$ C, 30 minutes $20\pm5^{\circ}$ C 15 minutes.	
4	Humidity Test	30±2°C, 90∼95% RH, 120 hours.	After the test the part shall meet
5	Drop Test	Dropped naturally from 700mm height onto the surface of 10mm thick wooden board. 2 directions-upper and side of the part are to be applied.	specifications without any degradation in appearance and
6	Vibration Test	The part shall be subjected to a vibration cycle is 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm(9.3g). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.	performance except SPL shall be initial value±10dB or more.
7	Shock	Sounder shall be measured after being applied shock (980m/s²) for each three mutually perpendicular directions to each of 3 times by half sine wave.	
8	Terminal Strength Pulling Test	The part shall be pushed with a force of 9.8N for 10±1 seconds behind the part.	

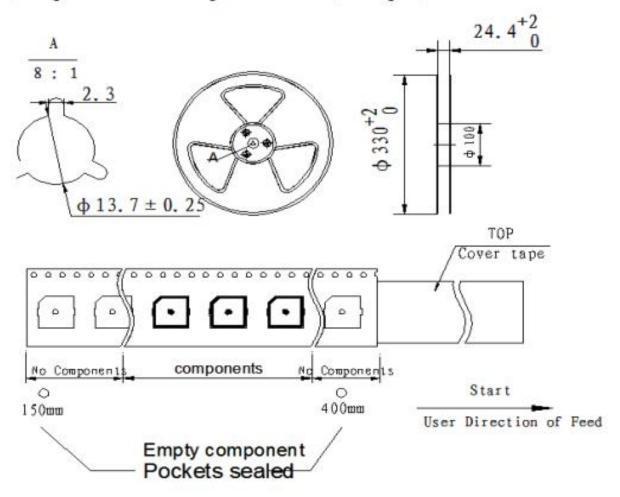
TEST CONDITION

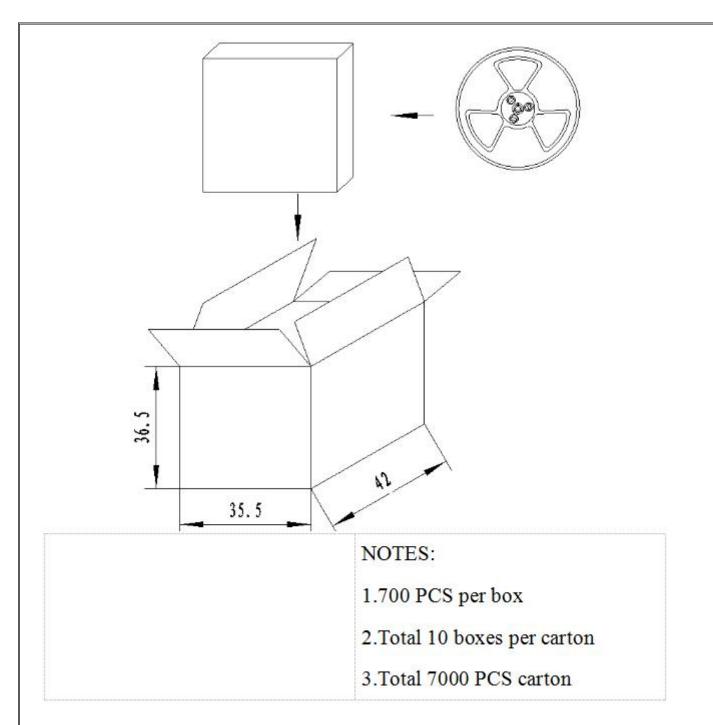
Standard Test Condition : a) Temperature : $+5 \sim +35^{\circ}$ C b) Humidity : 45-85% c) Pressure : 860-1060mbar **Judgment Test Condition:** a) Temperature : $+25\pm2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar

G. PACKING STANDARD



- 1.10 sprocket hole pitch cumulative tolerance +/-0.20mm.
- 2. All dimensions meet EIA-481-D requirements.
- 3. Thickness: 0.4+/-0.05mm.
- 4. Component loaded per 13"ree1: 700pcs.





H.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.

I.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.

J.REVISION

No.	DATE	DESCRIPTION	REMARK	VERSION
1	Sept.11,2019	Initial condition	TDA-M96050D-05S27	V2.0