



请承认书

Version No.: V2.0

常 州 昊 翔 电 子 有 限 公 司  
**Changzhou HaoXiang Electronic Co., LTD**

客 户 名 称

**CUSTOMER NAMED :** \_\_\_\_\_

产 品 名 称

**COMMODITY : SMD MAGNETIC BUZZER**

产 品 型 号

**MODEL NO : TDA-M96050D-05S27**

客 户 料 号

**PART NO :** \_\_\_\_\_

审 核	秦皓	主 办	潘莲 Sep.11,2019
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客 户 承 认 栏			
承 认		拒 收	

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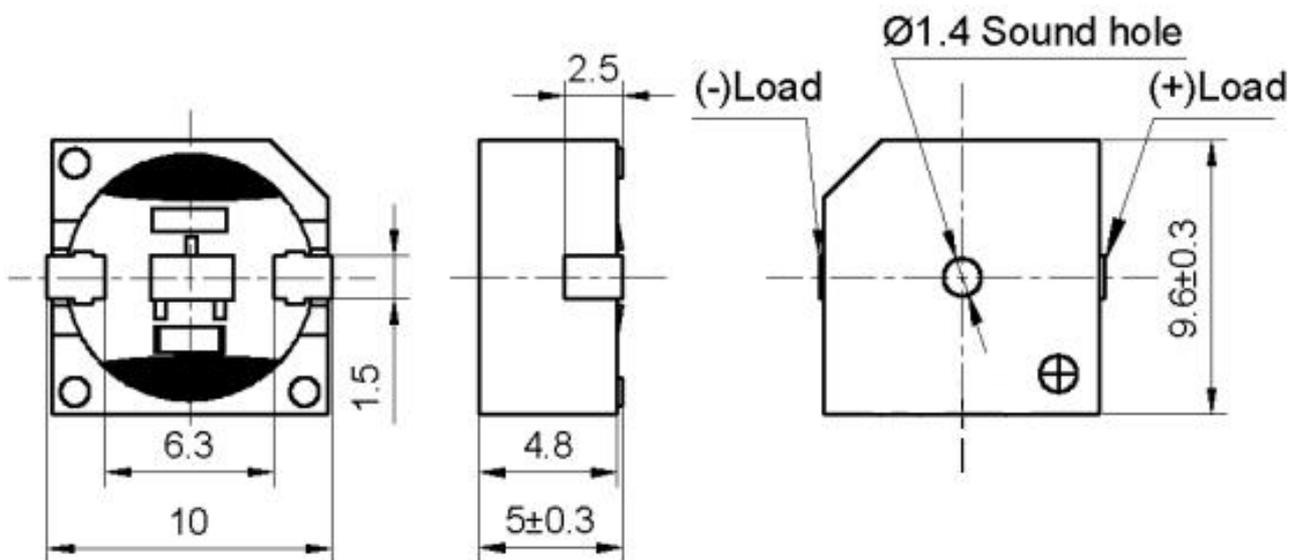
## A. SCOPE

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

## B. SPECIFICATION

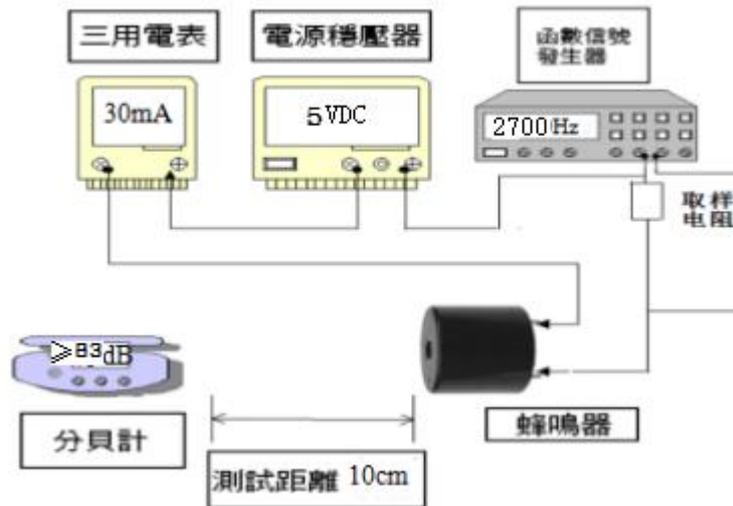
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2700±300	Square Wave
2	Operating Voltage	VDC	4~6.5	
3	Rated Voltage	VDC	5	
4	Current Consumption	mA	MAX. 30	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 83	at 10cm at Rated Voltage
6	Operating Temperature	°C	-20 ~ +70	
7	Storage Temperature	°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

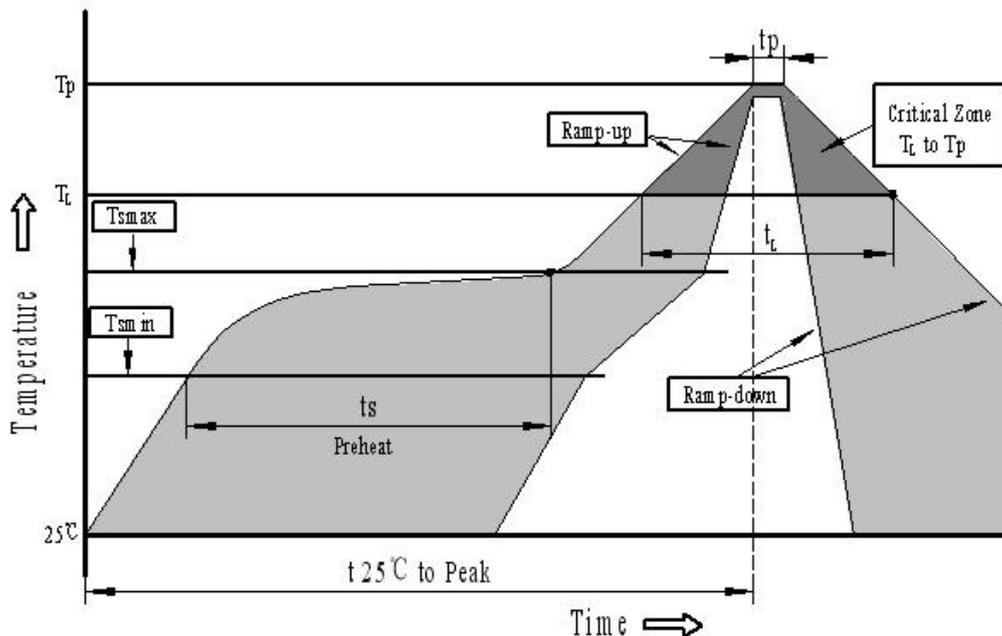


Unit:mm Tolerance : ±0.5mm

## D. RECOMMEND DRIVING CIRCUIT

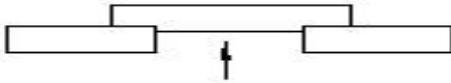


## E. RECOMMENDED TEMP. PROFILE FOR REFLOW OVEN



Profile Feature	Pb-Free Assembly
Average ramp-up rate( $T_L$ to $T_p$ )	3°C/second max.
Preheat	
-Temperature Min.( $T_{smin}$ )	150°C
-Temperature Min.( $T_{smax}$ )	200°C
-Temperature Min.( $t_s$ )	60~180 seconds
$T_{smax}$ to $T_L$	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature( $T_L$ )	217°C
-Time( $T_L$ )	60~150 seconds
Peak temperature( $T_p$ )	245°C+0/-5°C
Time within 5°C of actual Peak temperature ( $t_p$ )	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

## F. RELIABILITY TEST

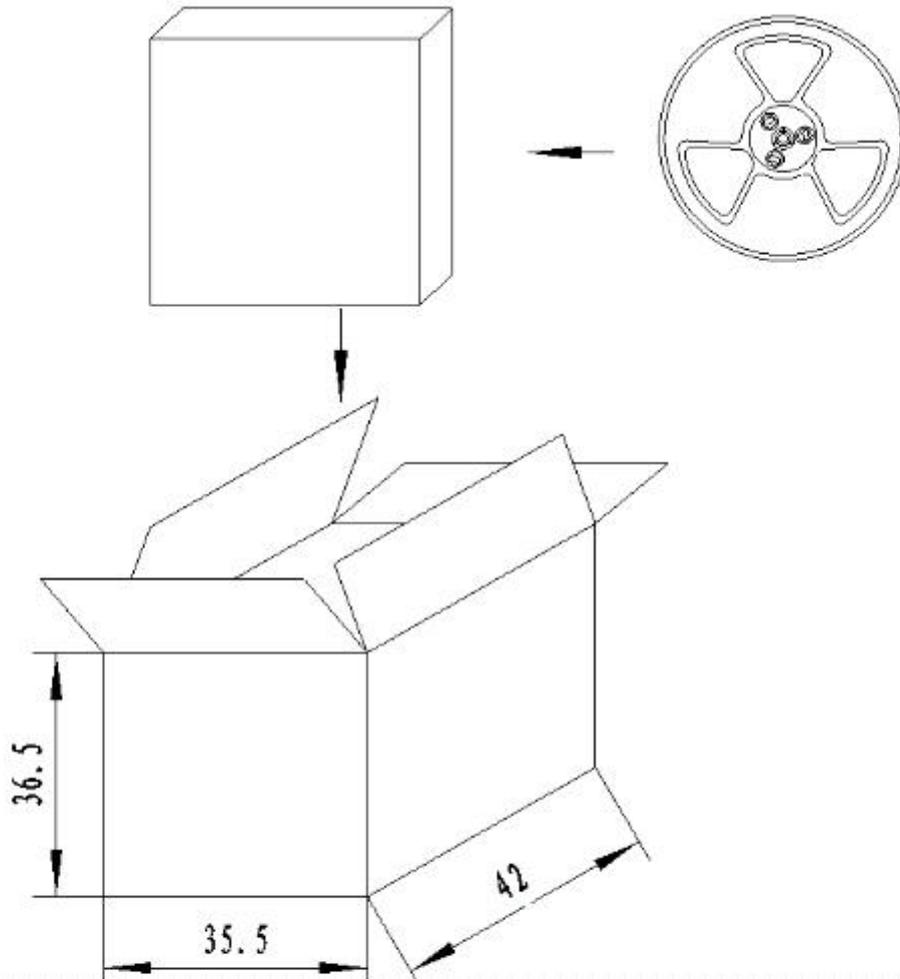
NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with +80°C for 120 hours.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30°C for 120 hours .
3	Temp. Cycle	The part shall be subjected to 5 cycles. One cycle consisting of -30±2°C, 30 minutes 20±5°C 15 minutes 80±2°C, 30 minutes 20±5°C 15 minutes.
4	Humidity Test	30±2°C, 90~95% RH, 120 hours.
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.
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.
7	Shock	Sounder shall be measured after being applied shock (980m/s <sup>2</sup> ) 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. 

After the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be initial value±10dB or more.

### TEST CONDITION

**Standard Test Condition :** a) Temperature : +5 ~ +35°C    b) Humidity : 45-85%    c) Pressure : 860-1060mbar  
**Judgment Test Condition:** a) Temperature : +25±2°C    b) Humidity : 60-70%    c) Pressure : 860-1060mbar





**NOTES:**

1.700 PCS per box

2.Total 10 boxes per carton

3.Total 7000 PCS carton

**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.

