



请承认书

Version No.: V2.3

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 : MAGNETIC BUZZER

产品型号

MODEL NO : TDA-16140-12V-2048Hz (Au)

客户料号

PART NO : _____

审核	秦皓	主办	丁华 Dec. 10, 2020
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客户承认栏			
承认		拒收	

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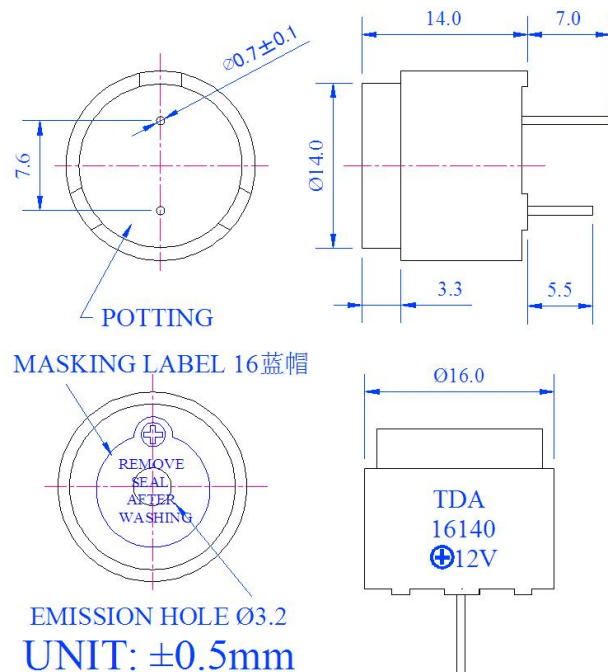
A. SCOPE

This specification applies magnetic buzzer, **TDA-16140-12V-2048Hz (Au)**

B. SPECIFICATION

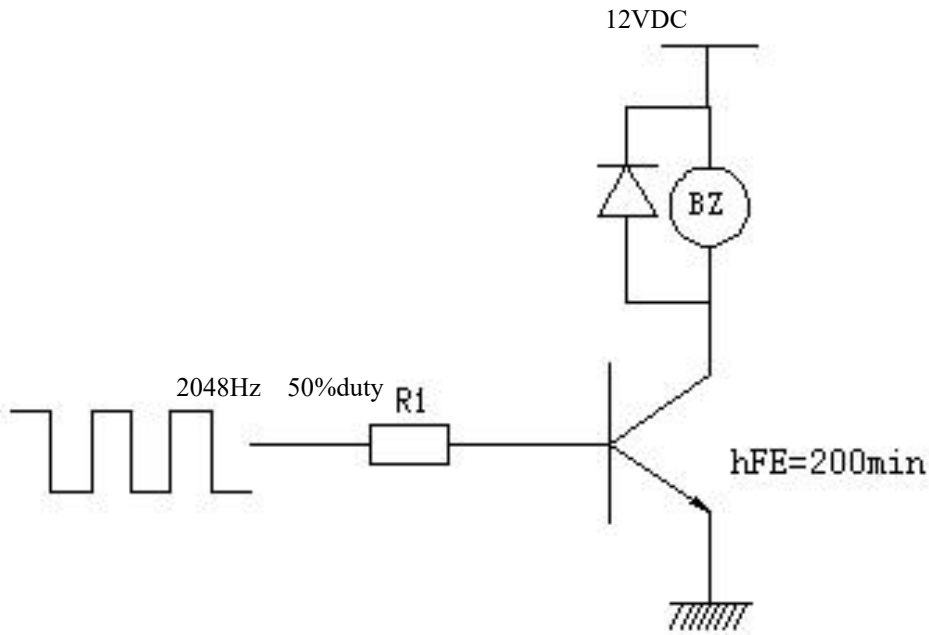
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2048	square wave
2	Operating Voltage	Vo-p	12	
3	Rated Voltage	Vo-p	10~14	
4	Current Consumption	mA	MAX. 60	at 12Vo-p,2048Hz,1/2duty
5	Sound Pressure Level	dB	MIN. 85	at 10cm,12Vo-p,2048Hz,1/2duty
6	Coil Resistance	Ω	$115 \pm 15\%$	
7	Operating Temperature	$^{\circ}\text{C}$	-20 ~ +60	
8	Storage Temperature	$^{\circ}\text{C}$	-30 ~ +70	
9	Dimension	mm	$\phi 16 \times H14$	See appearance drawing
10	Weight (MAX)	gram	4.9	
11	Housing Material		PBT (Black)	
12	Leading Pin		Pin type (Plating Au)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING



Unit:mm

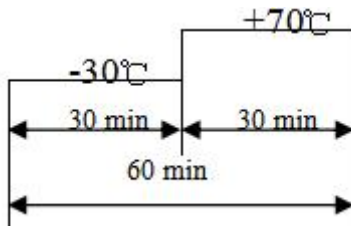
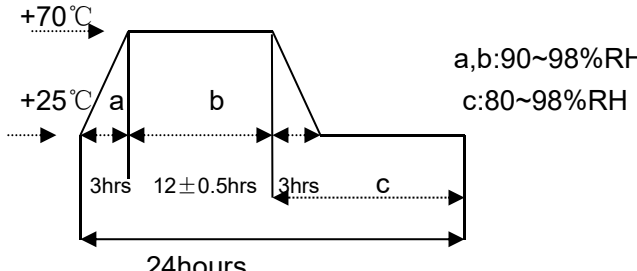
D. RECOMMEND DRIVING CIRCUIT



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 $260 \pm 5^\circ\text{C}$ 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 $260 \pm 5^\circ\text{C}$ for 2 ± 0.5 seconds.	No interference in operation
3	Terminal Strength Pulling	The force 60 seconds of 9.8N is applied to each terminal in axial direction	No damage and cutting off
4	Vibration	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 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 axis in each three axes(X,Y,Z),Total 6 hours.	After the test the part shall meet specifications without any damage in appearance and performance except SPL.SPL should be in $\pm 10\text{dBA}$ compared with initial one.
5	Drop test	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes(X,Y,Z),(a total of 9 times).	

F. ENVIRONMENT TEST

NO	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +70°C for 96 hours	<p>After the test the part shall meet specifications without any degradation in appearance and performance except SPL. after 4 hours at +25 °C ,The SPL shall be in ± 10dBA compared with initial one.</p> <p>After the test, the remaining salt spray solution was cleaned with ionized water. After drying, buzzer shall be measured, the SPL should be in ±20dB compared with initial one, and the pin has no oxidation.</p>
2	Low temp. test	After being placed in a chamber at -30°C for 96 hours	
3	Thermal shock	<p>The part shall be subjected to 10 cycles. One cycle shall consist of :</p> 	
4	Temp./Humidity Cycle	<p>The part shall be subjected to 10 cycle shall be 24 hours and consist of :</p> 	
5	Salt Spray Test	<p>Sample thing to clean, place the test face up in the salt spray test box, the concentration of 50 ± 5g/L. The solution at 25 °C, makes up close 1.0258 ~1. 0402 range, laboratory temperature 35 ± 2 °C; 47 ± 2 °C saturated air barrel temperature. Continuous atomization time: 72h</p>	

G. RELIABILITY TEST

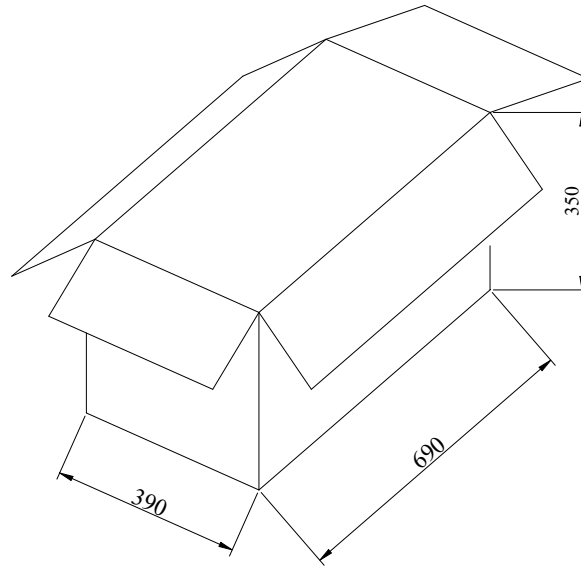
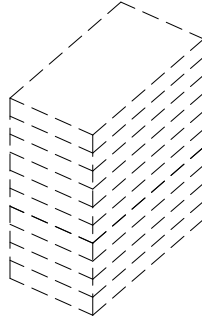
NO	Item	Test condition	Evaluation standard
1	Operating life test	<p>1. Ordinary temperature The part shall be subjected to 96 hours at room temperature</p> <p>2. High temperature The part shall be subjected to 72 hours at +60 °C with 12V, 2048HZ applied.</p> <p>3. Low temperature The part shall be subjected to 72 hours at -20°C with 12V, 2048HZ applied.</p>	<p>After the test the part shall meet specifications without any degradation in appearance and performance except SPL. after 4 hours at +25°C, The SPL should be in ± 10dBA compared with initial one.</p>

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

H. PACKING STANDARD



包装箱	长×宽×高(mm)	包装数量(只)
吸塑盒	320×170×28	50
小纸箱	340×190×310	500
大纸箱	690×390×350	2000

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.

