

# 请承认书

样品编号: \_\_\_\_\_

常州声翔电子有限公司  
Changzhou TDA<sup>®</sup> Electronic Co., LTD

客户名称

CUSTOMER NAME: \_\_\_\_\_

产品名称

COMMODITY : BUZZER

产品型号

MODEL NO : TDA-27M2

客户料号

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

审核

徐青梅

主办

王严 13/09/11

客户承认栏

承认

拒收

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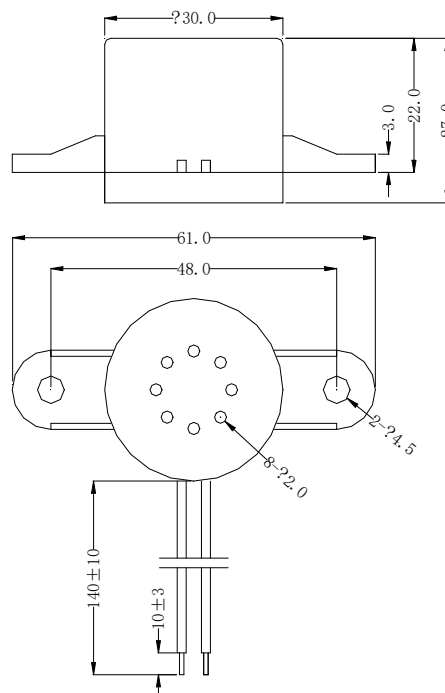
## A. SCOPE

This specification applies piezo buzzer, **TDA-27M2**

## B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	50-60	square wave
2	Operating Voltage	V(AC)	180-250	
3	Rated Voltage	V(AC)	220	
4	Current Consumption	mA	MAX. 150	at 220V(AC)
5	Sound Pressure Level	dB	MIN. 60	At1m 220V(AC)
6	Tone		/	
7	Operating Temperature	°C	-20 ~ +60	
8	Storage Temperature	°C	-30 ~ +70	
9	Dimension	mm	61x27	See appearance drawing
10	Weight (MAX)	gram	20	
11	Housing Material		PBT	
12	Leading wire		1569,26#双黑线	See appearance drawing
13	Environmental Protection Regulation		RoHS	

## C. APPEARANCE DRAWING Unit:mm Tol: ±0.5



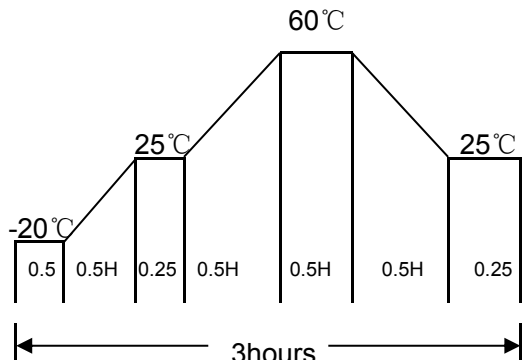
## D. Bill of material

序号	物料名称	物料规格	用量	RoHS
1	塑壳	27M2 外壳 (PBT)	1	√
2	塑壳	27M2 后盖 (PBT)	1	√
3	蜂鸣片	FT-27T-4.0A1	1	√
4	线路板	27M2 线路板	1	√
5	贴片电阻	贴片电阻 184	1	√
6	贴片三极管	贴片三极管 2SC2712-LG	1	√
7	电感	8*10 的 3 脚电感	1	√
8	电容	贴片电容 10nF	1	√
9	电解电容	电解电容 47uf	1	√
10	电阻	功率电阻 24K(1W)封装 2515	1	√
11	二极管	M7	1	√
12	锦丝线	长 32mm (剥头 1.2mm)	2	√
13	黑色引线	26#	2	√
14	硅胶	HC704 胶粘剂	/	√
15	黄胶	BP-406 黄胶	/	√
16	水溶性胶	735LI	/	√
17	焊锡丝	0.8mm 焊锡丝	/	√
18	自封袋		1/80	√
19	纸盒	22*19*10 方盒	1/80	√

## 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 $270\pm 5^{\circ}\text{C}$ for $3\pm 0.5$ 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 $300\pm 5^{\circ}\text{C}$ for $\pm 0.5$ seconds or $260\pm 5^{\circ}\text{C}$ for $10\pm 1$ seconds.	No interference in operation
3	Terminal Strength Pulling	The force $10\pm 1$ 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.	The value of oscillation frequency and current consumption should be in $\pm 10\%$ compared with initial ones. The SPL should be in $\pm 10\text{dB}$ compared with initial one.

## F. ENVIRONMENT TEST

NO	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at $60^{\circ}\text{C}$ for 96 hours	Being placed for 4 hours at $25^{\circ}\text{C}$ ,buzzer shall be measured. The value of oscillation frequency and current consumption should be in $\pm 10\%$ compared with initial one. The SPL should be in $\pm 10\text{dB}$ compared with initial one.
2	Low temp. test	After being placed in a chamber at $-20^{\circ}\text{C}$ for 96 hours	
3	Humidity test	After being placed in a chamber at $40^{\circ}\text{C}$ and $85\pm 5\%$ relative humidity for 96hours	
4	Temp. cycle test	 <p>The diagram illustrates a temperature cycle test profile over a 3-hour period. It starts at <math>-20^{\circ}\text{C}</math> with a 0.5-hour dwell. The temperature then rises to <math>25^{\circ}\text{C}</math> with a 0.5-hour dwell. It then rises to <math>60^{\circ}\text{C}</math> with a 0.5-hour dwell. The temperature then falls back to <math>25^{\circ}\text{C}</math> with a 0.5-hour dwell. Finally, it falls to <math>-20^{\circ}\text{C}</math> with a 0.5-hour dwell. The total cycle time is 3 hours.</p>	

