

请承认书

样品编号: _____

常州声翔电子有限公司

Changzhou TDATM Electronic Co., LTD

客户名称

CUSTOMER NAME: _____

产品名称

COMMODITY : 蜂鸣器

产品型号

MODEL NO : TDA-20C9B

客户料号

PART NO : _____

审核

徐青梅

主办

王严 14/08/15

客户承认栏

承认

拒收

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美国销售部(USA SALE OFFICE):

McCarthy Business Center 1525 McCarthy
Blvd, Suite 1111 Milpitas, CA 95035
Tel: 1-408-6935952
E-mail: lucas@tdausa.com

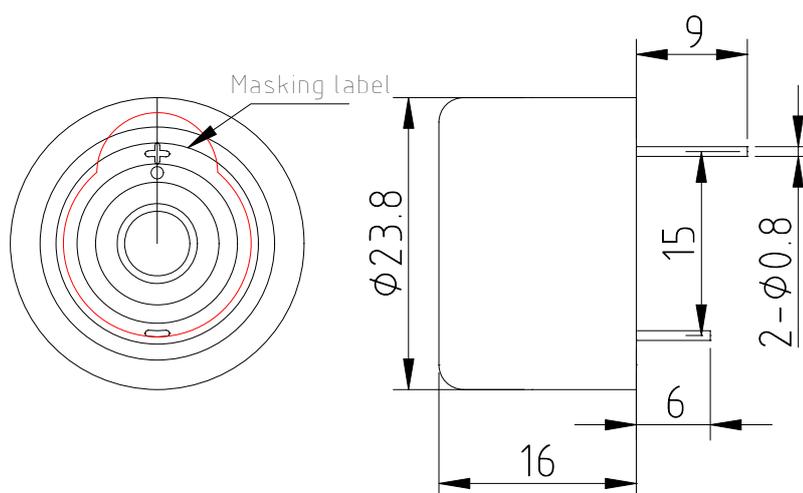
A. SCOPE

This specification applies piezo buzzer, **TDA-20C9B**

B. SPECIFICATION

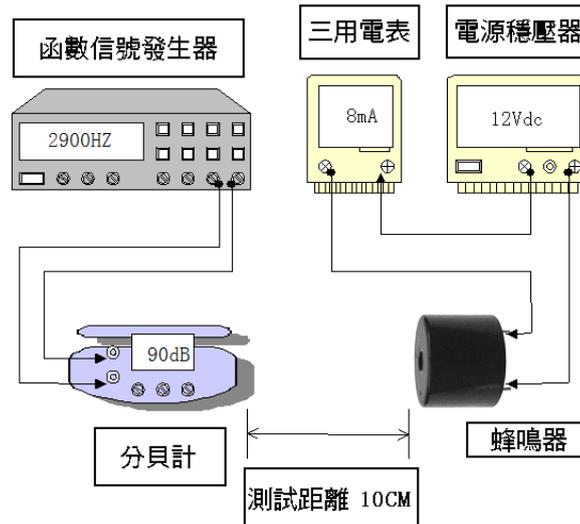
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2900±500	square wave
2	Operating Voltage	Vdc	3~30	
3	Rated Voltage	Vdc	12	
4	Current Consumption	mA	MAX. 15	at 12Vdc
5	Sound Pressure Level	dB	MIN. 90	at 30cm 12Vdc 2900Hz
6	Coil Resistance	Ω		
7	Operating Temperature	°C	-20 ~ +70	
8	Storage Temperature	°C	-30 ~ +80	
9	Dimension	mm	23.8.0x16	See appearance drawing
10	Weight (MAX)	gram	4.5	
11	Housing Material		PPo(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING



Unit:mm Tolerance:±0.5

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 $270\pm 5^{\circ}\text{C}$ 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 $300\pm 5^{\circ}\text{C}$ for ± 0.5 seconds or $260\pm 5^{\circ}\text{C}$ for 10 ± 1 seconds.	No interference in operation
3	Terminal Strength Pulling	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.	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.

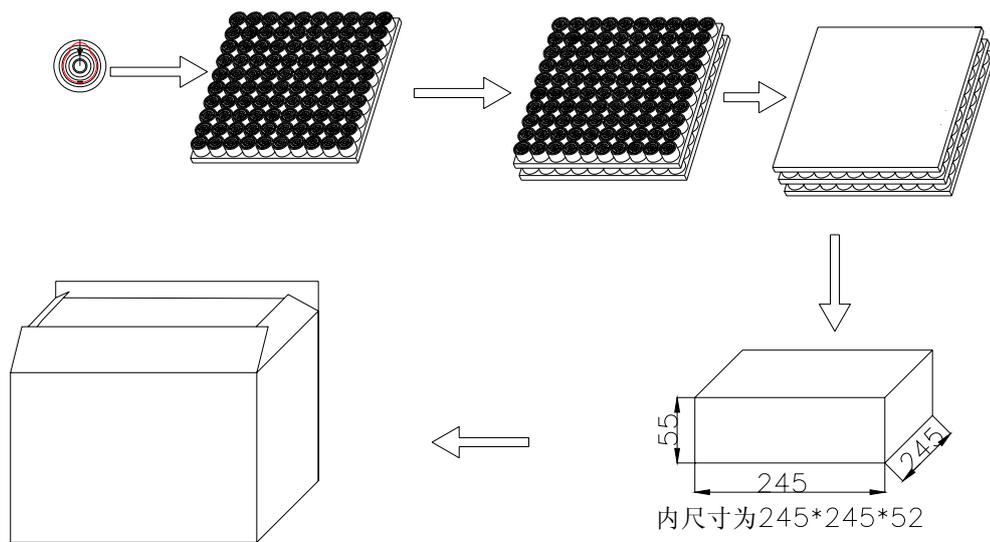
F. ENVIRONMENT TEST

NO	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at 60°C for 96 hours	Being placed for 4 hours at 25°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°C for 96 hours	
3	Humidity test	After being placed in a chamber at 40°C and $85\pm 5\%$ relative humidity for 96 hours	
4	Temp. cycle test	<p>The graph shows a temperature cycle test profile over a 3-hour period. The temperature starts at -20°C, rises to 25°C, then to 70°C, and finally returns to 25°C. The dwell times at each temperature level are: 0.5H at -20°C, 0.25H at 25°C, 0.5H at 70°C, and 0.25H at 25°C. The total cycle time is 3 hours.</p>	

G. RELIABILTY TEST

NO	Item	Test condition	Evaluation standard
1	Operating life test	1. Continuous life test 96 hours continuous operation at 60°C with maximum rated voltage applied. 2. Intermittent life tes 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.

H. Packing



NOTE: (2K)

100pcs per Layer
 2 Layer per capsule
 Tatal 2K per box
 SIZE 50*31*31CM
 Net Weight:8.4Kg
 Gross Weight:11Kg

