

请承认书

样品编号: _____

常州声翔电子有限公司
Changzhou TDA[®] Electronic Co., LTD

客户名称

CUSTOMER NAME: _____

产品名称

COMMODITY : Piezo Buzzer

产品型号

MODEL NO : TDA-20D1

客户料号

PART NO : _____

审核

朱刘兵

主办

徐青梅 12/12/10

客户承认栏

承认

拒收

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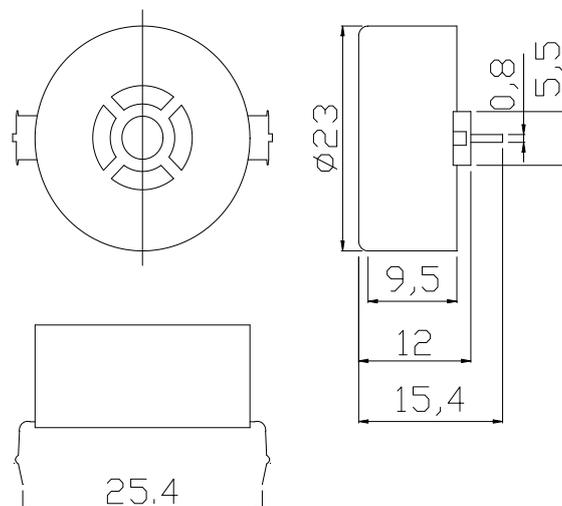
A. SCOPE

This specification applies piezo buzzer, **TDA-20D1**

B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	3500 ± 500	square wave
2	Operating Voltage	Vdc	2~20	
3	Rated Voltage	Vdc	12	
4	Current Consumption	mA	MAX. 4	
5	Sound Pressure Level	dB	MIN. 70	at 30cm 12Vdc
6	Coil Resistance	Ω		
7	Operating Temperature	°C	-10 ~ +60	
8	Storage Temperature	°C	-30 ~ +70	
9	Dimension	mm	23.0x10.5	See appearance drawing
10	Weight (MAX)	gram	3	
11	Housing Material		PPo(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

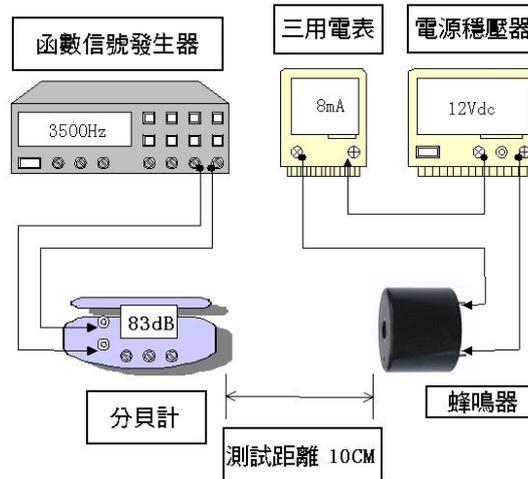
C. APPEARANCE DRAWING



Unit:mm

Tol: ±0.5mm

D. Test 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 $\pm 10\%$ comlared 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 96hours	
4	Temp. cycle test	<p>The graph shows a temperature cycle test profile. The cycle starts at -20°C, ramps up to 25°C (0.5H), dwells at 25°C (0.25H), ramps up to 70°C (0.5H), dwells at 70°C (0.5H), ramps down to 25°C (0.5H), dwells at 25°C (0.5H), and ramps down (0.25H). The total cycle duration is 3 hours.</p>	

G. RELIABILTY TEST

NO	Item	Test condition	Evaluation standard
1	Operating life test	<ol style="list-style-type: none">1. Continuous life test 96 hours continuous operation at 60°C with maximum rated voltage applied.2. Intermittent life test 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.