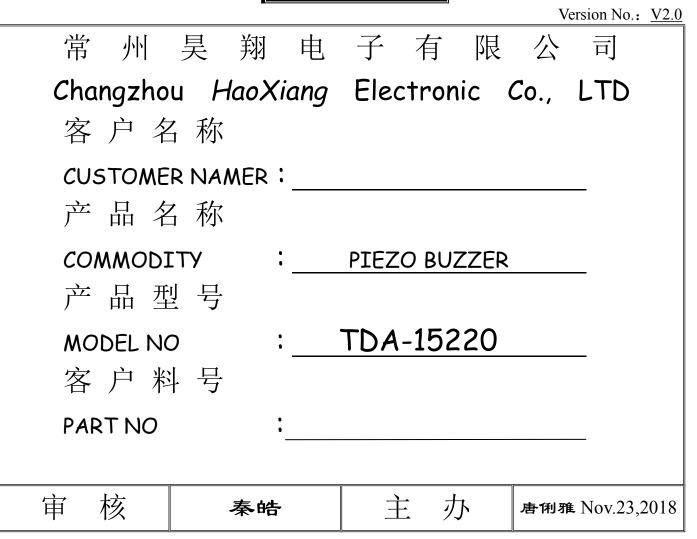


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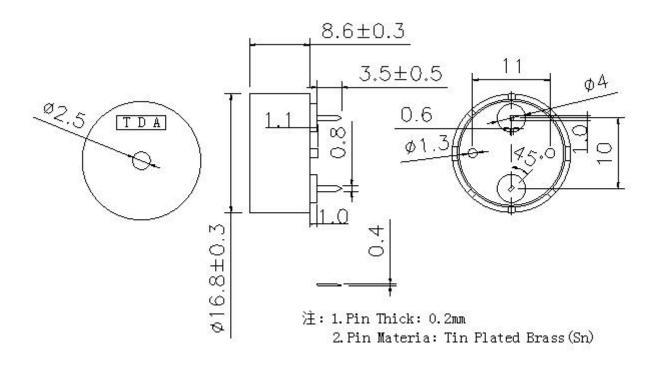
# A. SCOPE

This specification applies piezo buzzer, TDA-15220

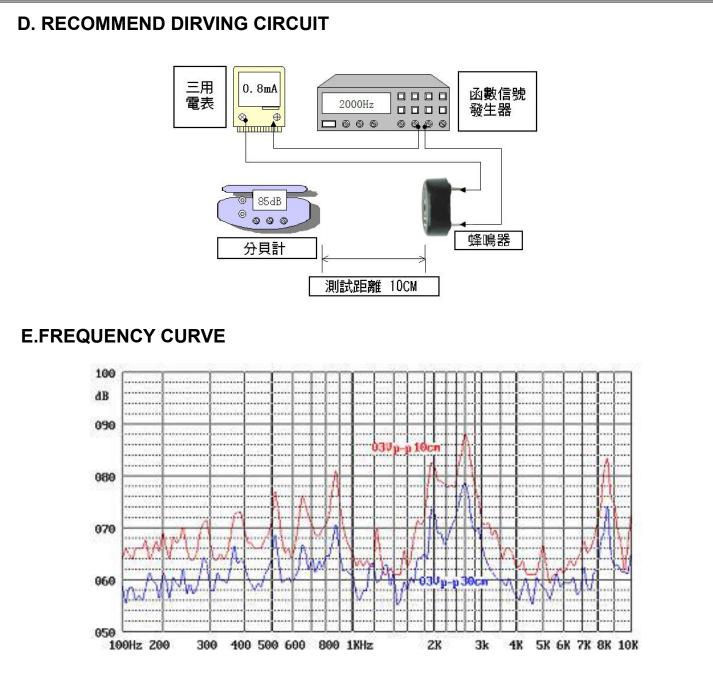
### **B. SPECIFICATION**

No.	ltem	Unit	Specification	Condition	
1	Oscillation Frequency	Hz	2000	square wave	
2	Operating Voltage	Vp-p	25 max		
3	Current Consumption	mA	MAX. 1.5	at 3Vp-p	
4	Sound Pressure Level	dB	MIN. 70	at 10cm 3Vp-p 2000Hz	
5	Operating Temperature	°C	-30 ~ +70		
6	Storage Temperature	°C	-40 ~ +80		
7	Dimension	mm	Ø16.8xH9.7	See appearance drawing	
8	Weight (MAX)	gram	1.5		
9	Housing Material		PPS/PBT		
10	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing	
11	Environmental Protection Regulation		RoHS		

# C. APPEARANCE DRAWING



Unit:mm Tolerance :  $\pm$ 0.5mm



## F. MECHANICAL CHARACTERISTICS

NO	Item	Test Condition	Evaluation standard
1	, ,	Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of $270\pm5$ °C for $3\pm0.5$ 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 $300\pm5^{\circ}$ C for $\pm 0.5$ seconds or $260\pm5^{\circ}$ C for $10\pm1$ seconds.	No interference in operation
3		The force $10\pm1$ 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.	

## **G. ENVIRONMENT TEST**

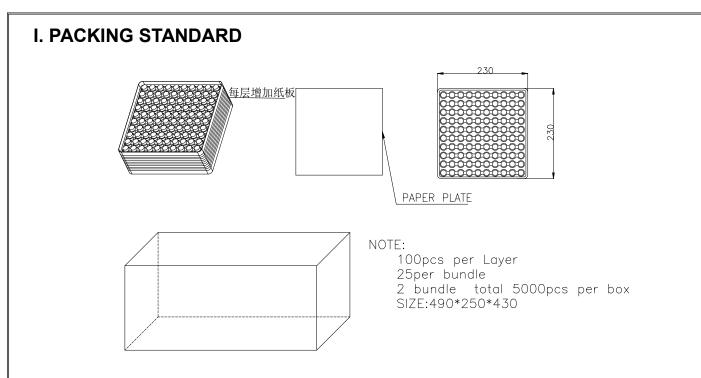
NO	Item	Test Condition	Evaluation standard	
1	High temp. test	After being placed in a chamber at+80 °C for 96 hours		
2	Low temp. test	After being placed in a chamber at -40°C for 96 hours	Being placed for 4 hours	
3	Humidity test	After being placed in a chamber at $40^\circ\!\mathrm{C}$ and $85\pm5\%$ relative humidity for 96hours	at 25℃,buzzer shall be measured. The value of	
4	Temp. cycle test	70 °C 25 °C 25 °C 25 °C 25 °C 0.5 0.5H 0.5H 0.5H 0.5H 0.5H 0.5H 0.5H 0.25 0.5H	oscillation frequency and current consumption should be in ±10% compared with initial one. The SPL should be in ±10dB compared with initial one.	

### H. RELIABILTY TEST

NO	Item	Test condition	Evaluation standard	
1	Operating life test	<ol> <li>Continuous life test 96 hours continuous operation at 60°C with maximum rated voltage applied.</li> <li>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</li> </ol>	Being placed for 4 hours at $25^{\circ}$ , 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.	

#### **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



#### J. NOTE CAUTIONS

**a.** Can not be applied DC bias voltage and a sounding body or pronunciation elements, otherwise its insulation resistance will decrease and the use of performance degradation.

b. Can not be imposed over pronunciation body or pronunciation components allows the use of voltage range of the voltage on the.

**C.** Please pay attention in welding process, don't let soldering flux invasion into the sound chamber , otherwise flux can cause defect conduction.

**d.** 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.

#### K. NOTICE ON PRODUCT STORAGE

a. Please store the products in room where the temperature / humidity is stable. And avoid such places

where there are large temperature changes. Please store the products under the following conditions :

Temperature : -10 to +40 (degree C)

Humidity : 15 to 85% R.H.

b. Expire date (Shelf life) of the products is 6 months after delivery under the conditions of a sealed and an

unopened package. Please use the products within 6 months after delivery. If you store the products for a long time

(more than 6months), use carefully because the products may be degraded in the solder-ability and/or rusty.

Please confirm solder-ability and characteristics for the products regularly.

C. Please use the products immediately after the package is opened, because the characteristics may be

reduced in quality, and/or be degraded in the solder-ability due to storage under the poor condition.

# L. REVISION

No.	DATE	DESCRIPTION	REMARK	VERSION
1	2007.08.05	House material from PPO to PBT	TDA-15220	V1.0
2	2008.03.21	Balance column from1.0mm to 1.15mm	TDA-15220	V1.1
3	Nov.23,2018	Version upgrade	TDA-15220	V2.0