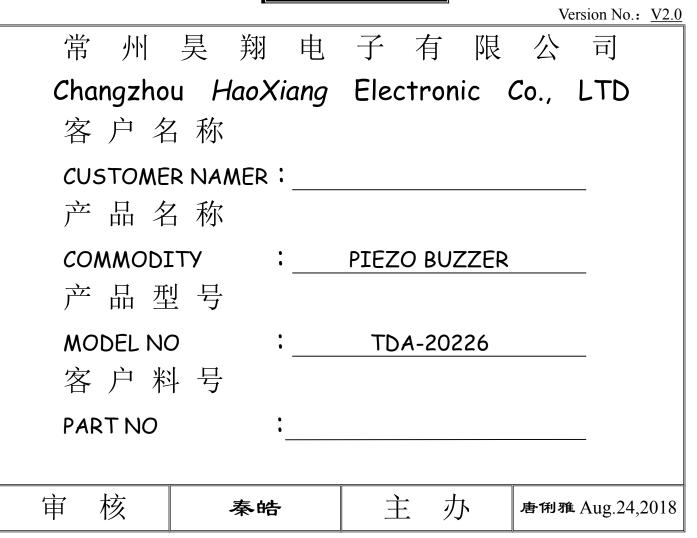


请承认书



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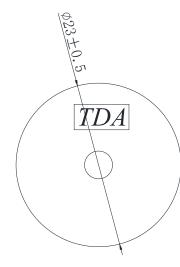
# A. SCOPE

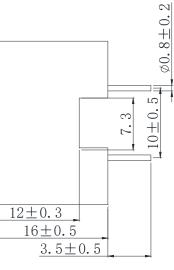
This specification applies piezo buzzer, TDA-20226

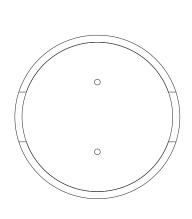
# **B. SPECIFICATION**

No.	ltem	Unit	Specification	Condition	
1	Oscillation Frequency	Hz	2600	square wave	
2	Operating Voltage	Vр-р	30 max		
3	Current Consumption	mA	MAX. 2	at 5Vp-p	
4	Sound Pressure Level	dB	MIN. 95	at 10cm 12Vp-p 2600Hz	
5	Operating Temperature	°C	-30 ~ +70		
6	Storage Temperature	°C	-40 ~ +80		
7	Dimension	mm	Ø23.0xH16.0	See appearance drawing	
8	Weight (MAX)	gram	3.5		
9	Housing Material		PPO( Black )		
10	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing	
11	Environmental Protection Regulation		RoHS		

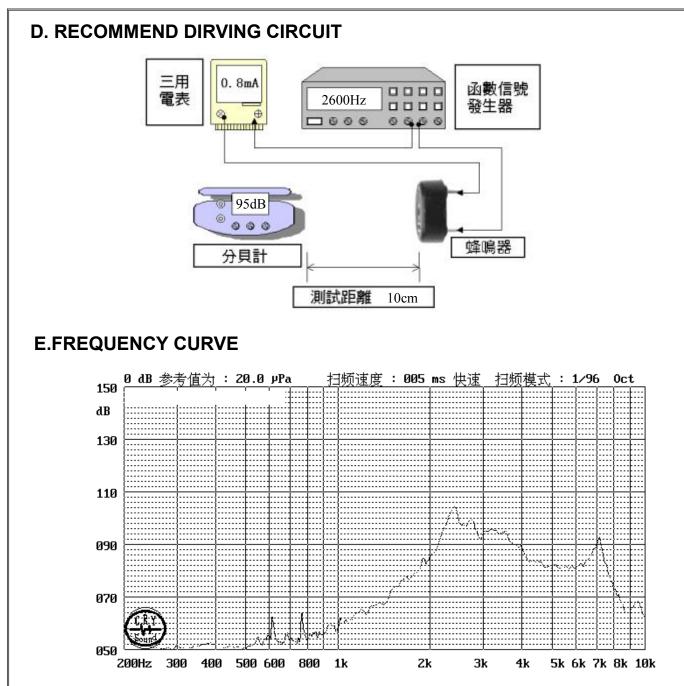
# C. APPEARANCE DRAWING







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 $270\pm5^{\circ}$ 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 $300\pm5$ °C for $5\pm0.5$ seconds or $260\pm5$ °C for $10\pm1$ seconds.	No interference in operation
3	Terminal Strength Pulling	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.	frequency and current consumption should be
5		Dropped naturally from 75cm height onto the surface of 40mm thick wooden board of 3 directions for 1times.	in±10%compared with initial ones. The SPL should be in ±10dB compared with initial one.

#### **G. ENVIRONMENT TEST** NO Test Condition Item Evaluation standard 1 After being placed in a chamber at+80°C for 96 hours High temp. test After being placed in a chamber at -40°C for 96 hours 2 Low temp. test After being placed in a chamber at 40°C and 85±5% Being placed for 4 hours 3 Humidity test relative humidity for 96hours at 25°C, buzzer shall be

		relative number of conours	
		The part shall be subjected to 5 cycles. One cycle shall be	measured. The value of
		consist of:	oscillation frequency
		<b>70</b> ℃	and current
			consumption should be
			in ±10% compared with
4	Temp. cycle test	<u>25°C</u> <u>25°C</u>	initial one. The SPL
			should be in ±10dB
		- <u>30°C</u>	compared with initial
		0.5 0.5H 0.25 0.5H 0.5H 0.5H 0.25	one.
		description → 3hours →	

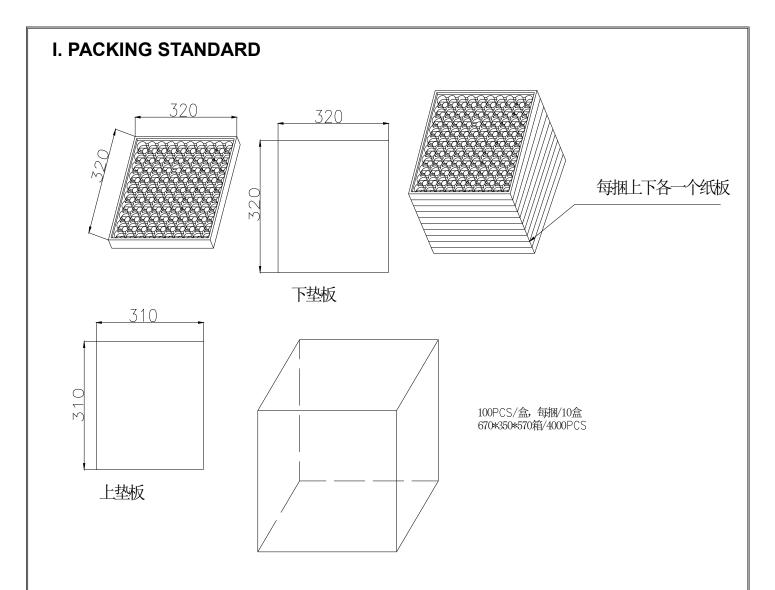
# **H. RELIABILTY TEST**

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°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.	

#### **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	Oct.26,2012	Initial condition	TDA-20226	V1.0
2	Nov.14,2017	Update product appearance drawing	TDA-20226	V1.1
3	Aug.24,2018	Version upgrade	TDA-20226	V2.0