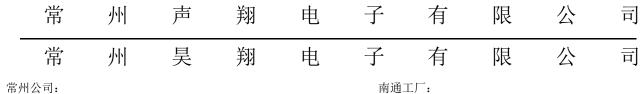
请承认书

				V	Version No:	V1.1
常州	昊 翔	电	子有	限	公	司
Changzhou	u Haoxi	ang	Electr	onic	Co.,	LTD
客户名	3 称					
CUSTOME	R NAMER :					-
产品名	3 称					
СОММОДІ	TY :		BUZ	ZER		_
产品型	型号					
MODEL NO) :		TDA-	20A3	8	_
客户卷	斗号					
PART NO	:					_
审核	徐青林	每	主	办	王严	之 17/06/01

承认 拒收		客	户	承	认	栏		
	承	认				拒	收	



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江苏如皋市郭元镇工业园辰翔工业区 TEL:86-513-87910588 871919168 Website:www.tda-buzzer.com

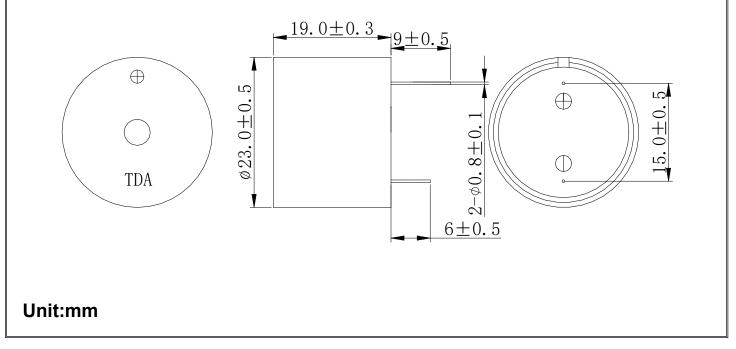
A. SCOPE

This specification applies piezo buzzer, **TDA-20A38-12V**

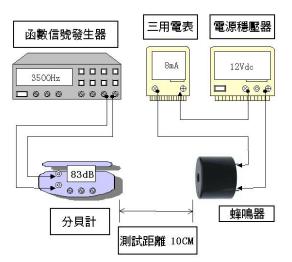
B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	Hz	3500 ±500	square wave
2	Operating Voltage	Vdc	3~25	
3	Rated Voltage	Vdc	12	
4	Current Consumption	mA	MAX. 15	at 12Vdc
5	Sound Pressure Level	dB	MIN. 85	at 30cm 12Vdc
6	Coil Resistance	Ω		
7	Operating Temperature	°C	-30 ~ +70	
8	Storage Temperature	°C	-40 ~ +80	
9	Dimension	mm	23.0x19	See appearance drawing
10	Weight (MAX)	gram	5	
11	Housing Material		PPO(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING



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 ± 5 °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 ± 5 °C for ±0.5 seconds or 260 ± 5 °C for 10 ± 1 seconds.	No interference in operation
3	•	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.	

F. ENVIRONMENT TEST

NO	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at 60 $^\circ\!\mathrm{C}$ for 96 hours	
2	Low temp. test	After being placed in a chamber at -20 $^\circ\!\mathrm{C}$ for 96 hours	Being placed for 4 hours
3	Humidity test	After being placed in a chamber at 40 $^\circ\!\mathrm{C}$ and 85±5%	at 25°C, buzzer shall be
3	Humidity test	relative humidity for 96hours	measured. The value of
4	Temp. cycle test	70 °C 25 °C 25 °C 25 °C 0.5 0.5H 0.25 0.5H 0.5H 0.5H 0.25	oscillation frequency and current consumption should be in ±10% compared with initial one. The SPL should be in ±10dB compared with initial one.
		3hours	

G. RELIABILTY TEST							
NO	ltem	Test condition	Evaluation standard				
1	Operating life test	 Continuous life test 96 hours continuous operation at 60°C with maximum rated voltage applied. 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 $25^{\circ}C$,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.				
н	PACKING STA	NDARD					

