

SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER (SELF DRIVE)
Part No.	2202A (RoHS)
Customer Approval	

Approved By	Checked By	Made By
ERIC WANG FEB-06-2006	DAVID LIU FEB-06-2006	JOHN HSU FEB-06-2006



SHOGYO INTERNATIONAL CORP.
6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791
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1. Specifications

2202A (RoHS)

Items		Units	Specifications	Conditions
01	Rated Voltage	VDC	12	
02	Operating Voltage	VDC	3~20	
03	Rated Current	mA(Max)	6	At 12VDC
04	Sound Output At 30cm	dBA(Min)	92	At 12VDC
05	Resonant Frequency	Hz	3000±500	
06	Tone Nature	CONTINUEOUS		
07	Operating Temp.	°C	-30 ~ +75	
08	Storage Temp.	°C	-40 ~ +85	
09	Weight	g	5	

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

JUDGEMENT

Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

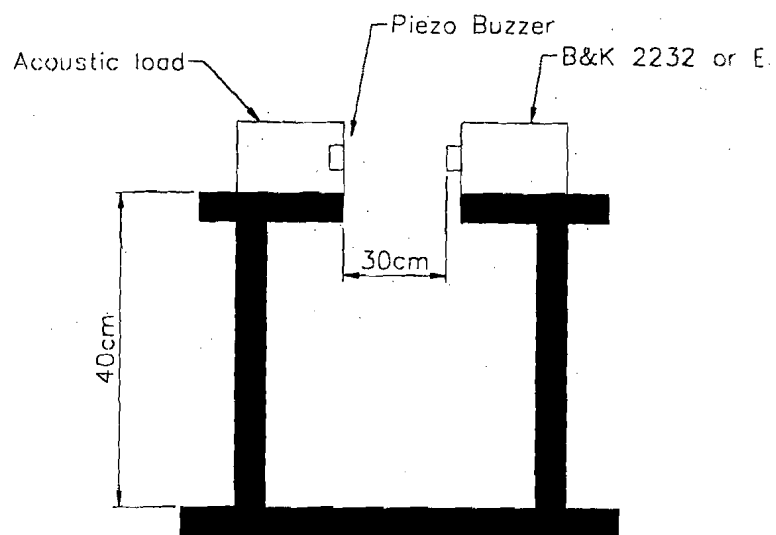


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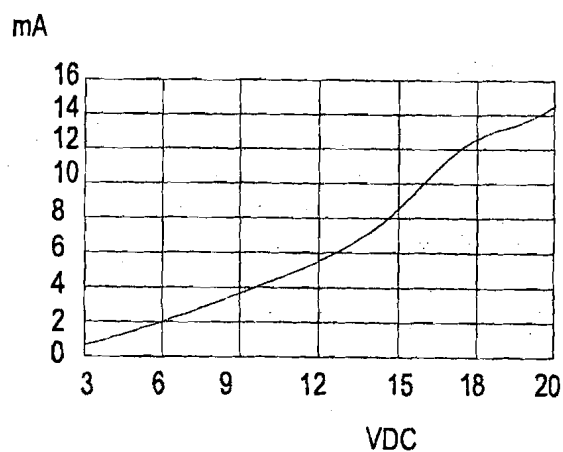
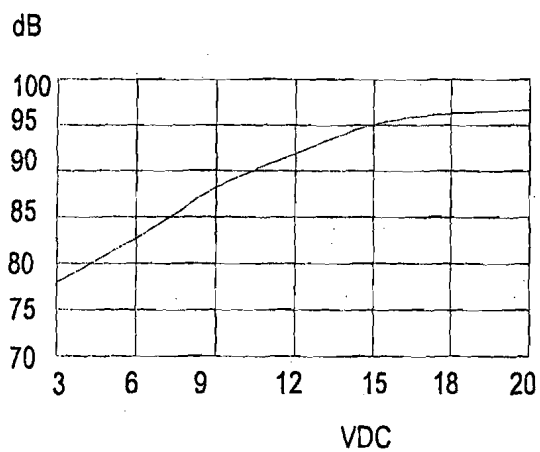
2-2. Standard Test Fixture

2202A (RoHS)

STANDARD TEST FIXTURE



2-3. Characteristic Curve



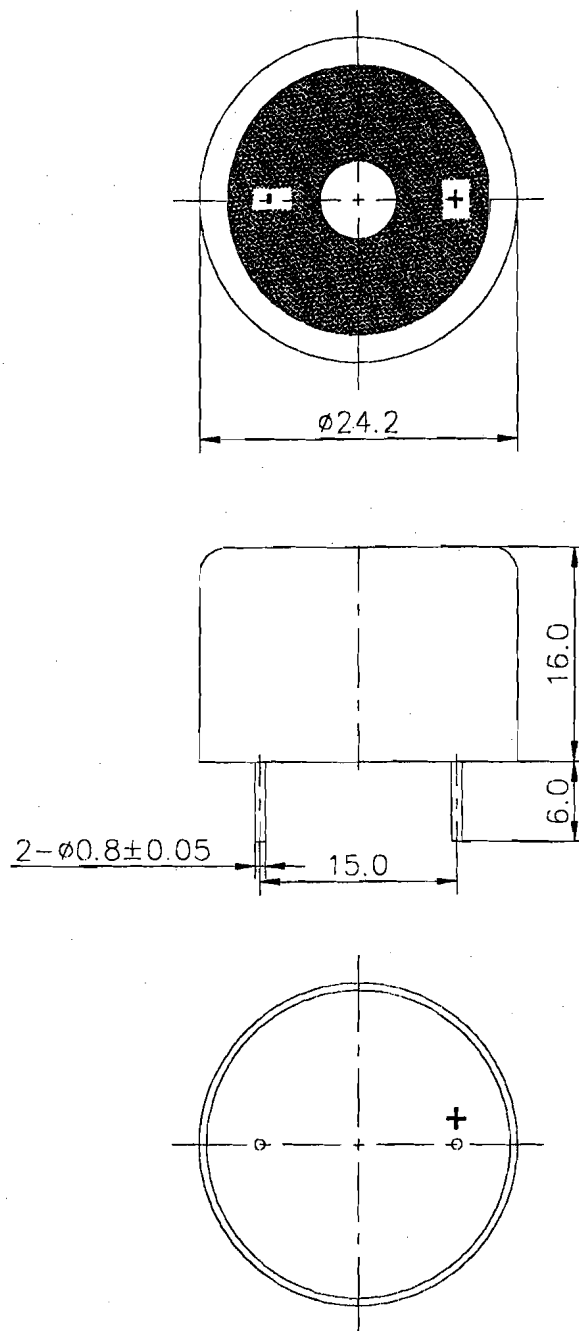
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REV NO.

REVISION NOTE

APPROVAL

DATE



TITLE: <i>PIEZO BUZZER</i>		DRAWN: <i>Ellen</i> 2005/11/24	SCALE: 2:1	SHEET: 1 of 1
PART NO. <i>2202A (RoHS)</i>	1	DESIGNED: <i>R&D of AAT</i>	UNITS: <i>mm</i>	
		CHECKED:	TOLERANCE ± 0.5	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
	REV	MATERIAL: <i>ABS</i>	ONE PLACE DECIMAL $\pm \dots$	
			TWO PLACE DECIMAL $\pm \dots$	
			THREE PLACE DECIMAL $\pm \dots$	

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4. Reliability Test

2202A (RoHS)

	Item	Conditions	Evaluation standard
01	Low Temp. Storage Test	$-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$,240Hr	After the test the part shall meet specifications without Any degradation and performance except S.P.L S.P.L shall be 84dB or more.
02	High Temp.Storage Test	$85^{\circ}\text{C} \pm 2^{\circ}\text{C}$,240Hr	
03	Temp./Humidity Storage Test	$40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, RH90-95% 240Hr	
04	Thermal Shock Test	$-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.5Hr) $\rightarrow$, $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.25Hr) $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.5Hr) $\rightarrow$, $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.5Hr) 5 cycles	
05	Vibration Test	10-55Hz/2 Hr amplitude1.5mm X,Y, Z,3 directions	
06	Mechanical Shock Test	+100G,Half Sine wave, XYZ , 3 impacts per axis ,3 times.	
07	Free Drop Test	The part shall be dropped freely from a height of 75 cm X,Y, Z,3 directions 3times (total 9 times)	
08	Life Burning Test	The part shall be subjected to 500 hrs in the room temp with rated voltage applied	
09	Lead Strength Test	Pull Lead with a force of 10N,on the direction of the lead axis for 10 ± 1 sec.	



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