

SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER(SELF DRIVER)
Part No.	2202AS (RoHS)
Customer Approval	

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



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1. Specifications

2202AS (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	-20 ~ +60	
08	Storage Temp.	°C	-20 ~ +70	
09	Weight	g	6	

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

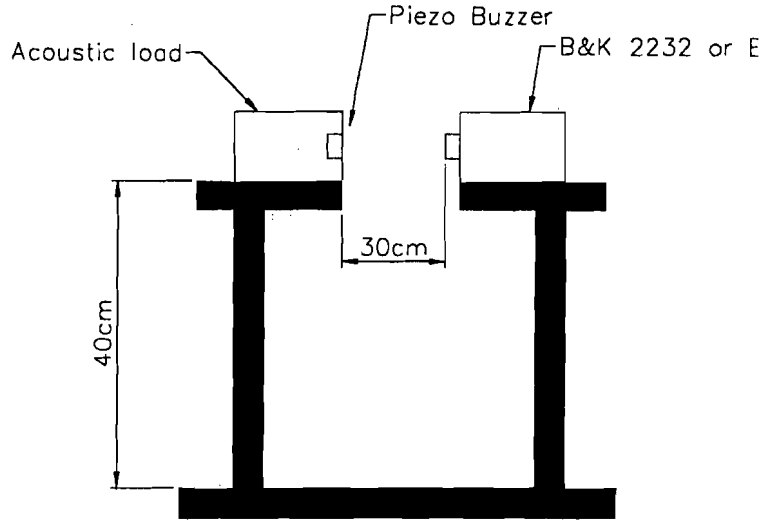
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

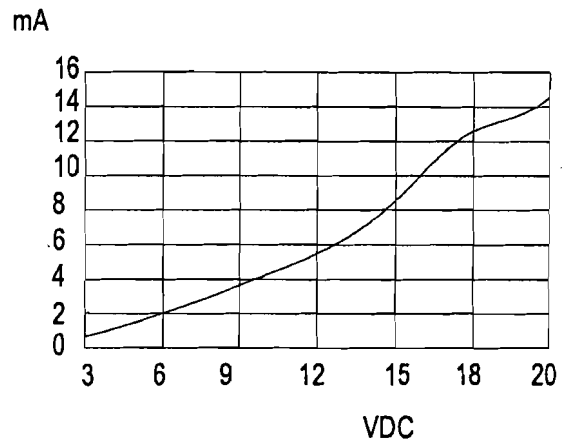
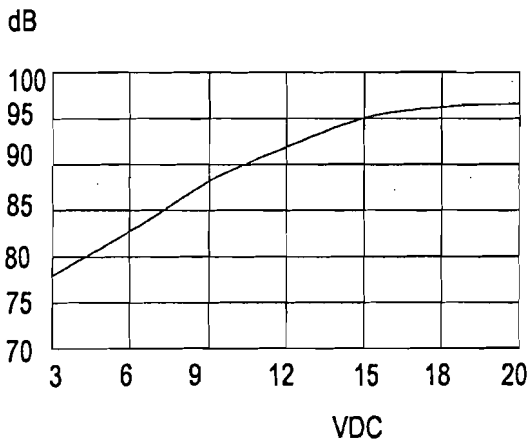


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STANDARD TEST FIXTURE



2-3. Characteristic Curve



4. Reliability Test

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Item	Conditions	Evaluation standard
01 Low Temp. Storage Test	-40°C±2°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°C±2°C ,240Hr	
03 Temp./Humidity Storage Test	40°C±2°C , RH90-95% 240Hr	
04 Thermal Shock Test	-40°C±2°C (0.5Hr)→ ,20°C±2°C (0.25Hr) 85°C±2°C (0.5Hr)→ ,20°C±2°C (0.5Hr) 5 cycles	
05 Vibration Test	10-55Hz/2 Hr amplitude 1.5mm 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.	

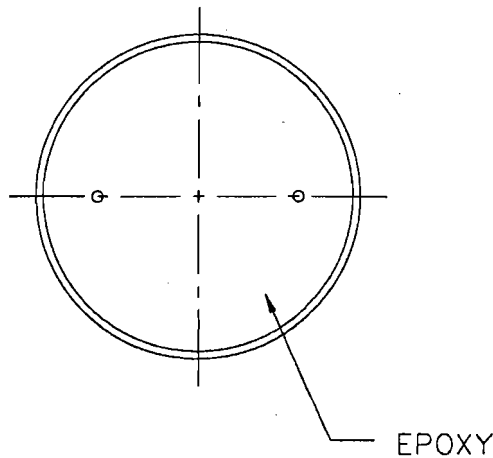
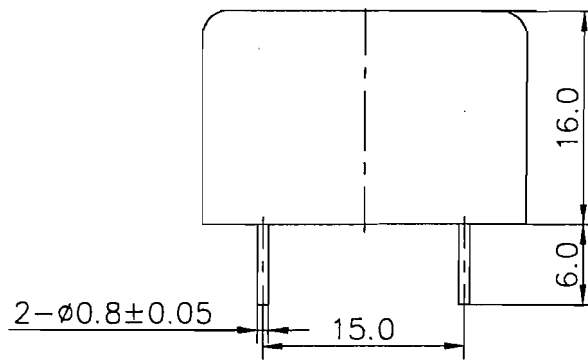
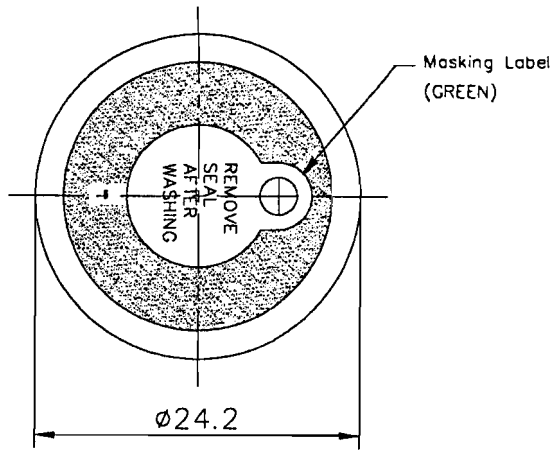
SOLDERING CONDITION

Recommend using constant branding iron in **30W**, and in temperature range **350±10°C**.

Soldering time **2** seconds.



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RoHS

TITLE: PIEZO BUZZER		DRAWN: <i>Ellen</i>	2006/01/03	SCALE: 2:1	SHEET: 1 of 1
PART NO. 2202AS (RoHS)		DESIGNED: R&D		UNITS: mm	
DWG NO. DPE-1086		CHECKED:		TOLERANCE ± 0.5	
		APPROVAL:		UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± ... TWO PLACE DECIMAL ± ... THREE PLACE DECIMAL ± ...	
	REV 1	MATERIAL: ABS			



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