

SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER (SELF DRIVE)
Part No.	2272 (RoHS)
Customer Approval	

Approved By	Checked By	Made By
ERIC WANG JUN-21-2006	DAVID LIU JUN-21-2006	JOHN HSU JUN-21-2006



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

2272(RoHS)

Items		Units	Specifications	Conditions
01	Rated Voltage	VDC	12	
02	Operating Voltage	VDC	3 ~ 28	
03	Rated Current	mA(Max)	15	At 12VDC
04	Sound Output At 30cm	dBA(Min)	82	At 12VDC
05	Resonant Frequency	Hz	3500±500	
06	Tone Nature	CONTINUEOUS		
07	Operating Temp.	°C	-20 ~ +60	
08	Storage Temp.	°C	-20 ~ +70	
09	Weight	g	7.5	

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%,

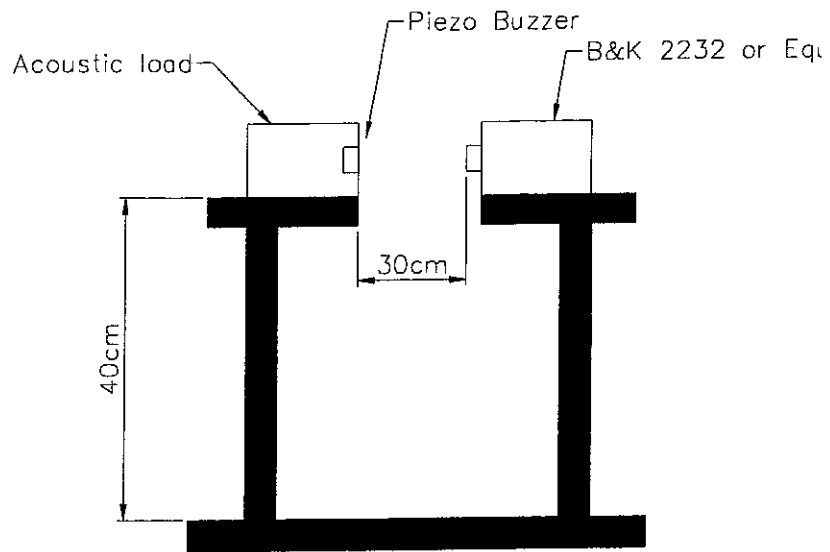
Atmospheric pressure : 860mbar to 1060mbar



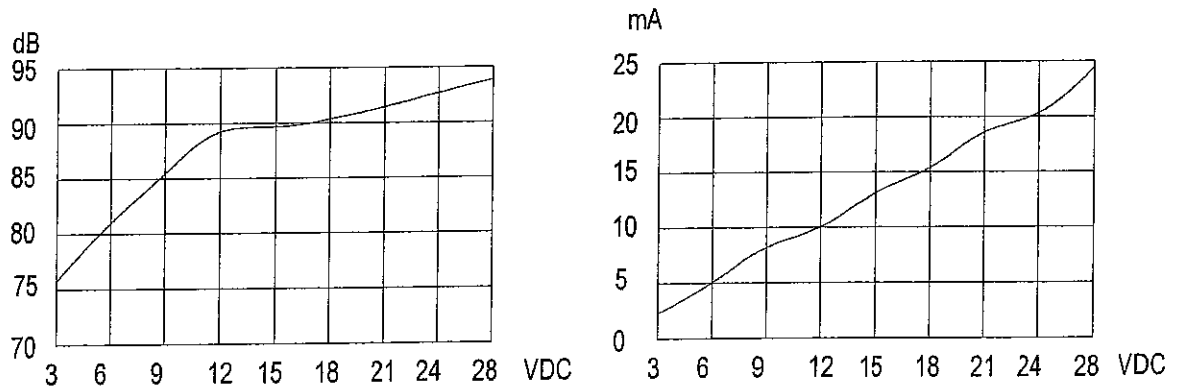
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2-2. Standard Test Fixture

2272(RoHS)



2-3. Characteristic Curve



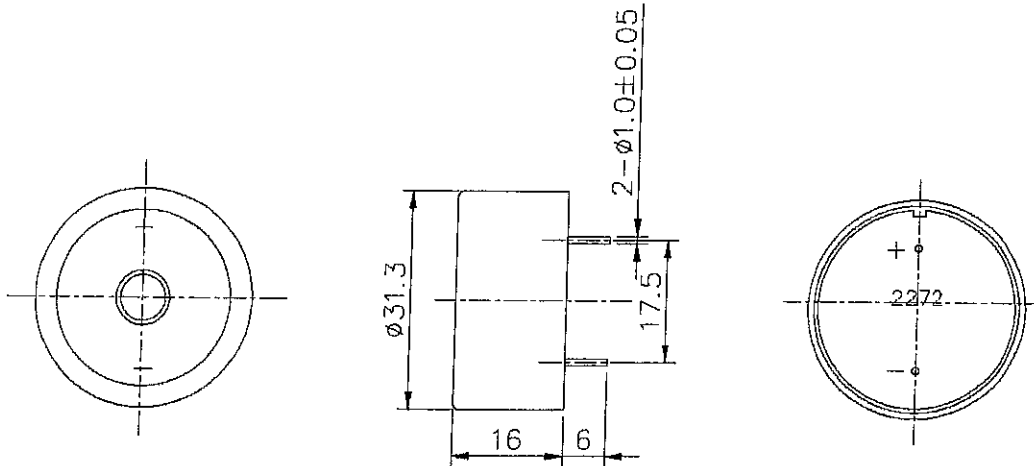
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REV NO.

REVISION NOTE

APPROVAL

DATE



TITLE: PIEZO BUZZER		DRAWN: <i>Kelley</i>	2005/02/19	SCALE: 1:1	SHEET: 1 of 1
PART NO. 2272(RoHS)		DESIGNED: R & D		UNITS: mm	
	1	CHECKED:		TOLERANCE ± 0.5	
		APPROVAL:		UNLESS OTHERWISE SPECIFIED:	
	REV	MATERIAL: ABS		ONE PLACE DECIMAL \pm ***	
				TWO PLACE DECIMAL \pm ***	
				THREE PLACE DECIMAL \pm ***	



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4. Reliability Test

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 74dB 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.	

