

---

# SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER(SELF DRIVER)
Part No.	AZ-1440S-P
Customer Approval	

Approved By	Checked By	Made By



**A & B Components**

**<http://www.speaker-tw.com>**

# 1.Specifications

AZ-1440S-P

Items		Units	Specifications	Conditions
01	Rated Voltage	VDC	12.0	
02	Operating Voltage	VDC	3.0~16.0	
03	Rated Current (Max)	mA	7	At 12 VDC
04	Min Sound Output	dBA	80	At 12VDC at 10cm
05	Resonant Frequency	Hz	4000±500	
06	Tone Nature	Single		
07	Operating Temp.	°C	-30 ~ +75	
08	Storage Temp.	°C	-40 ~ +85	
09	Weight	g	1	

## 2.Measuring Method

### Test Condition

#### STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

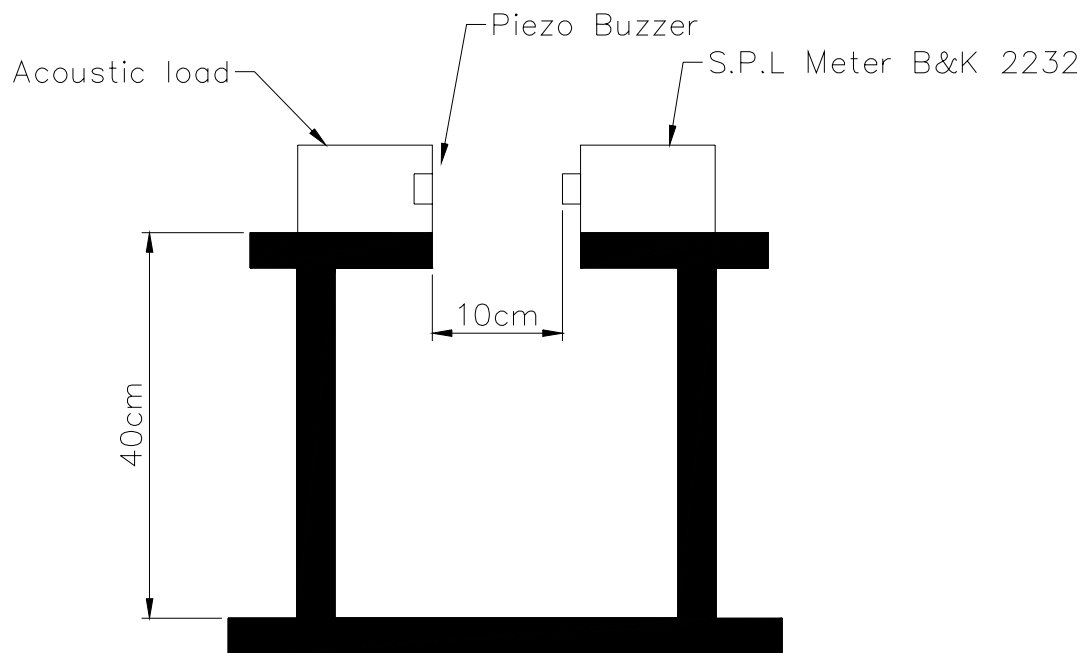
#### JUDGEMENT

Temperature : 20±3°C

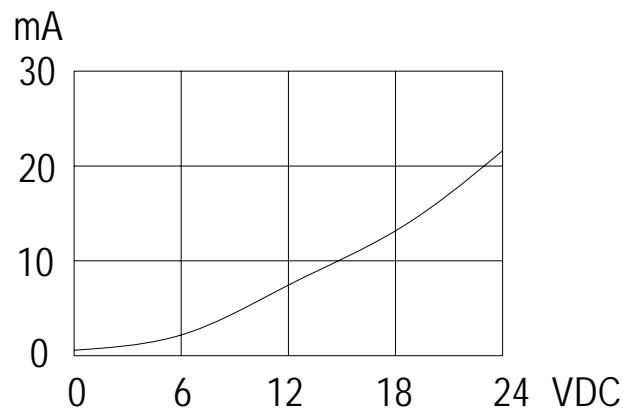
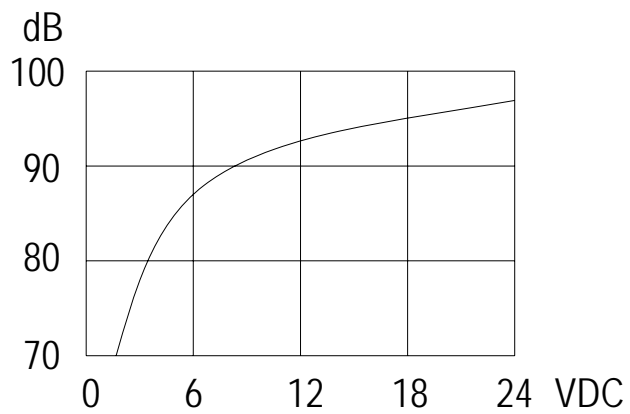
Relative humidity : 60% ~ 70%,

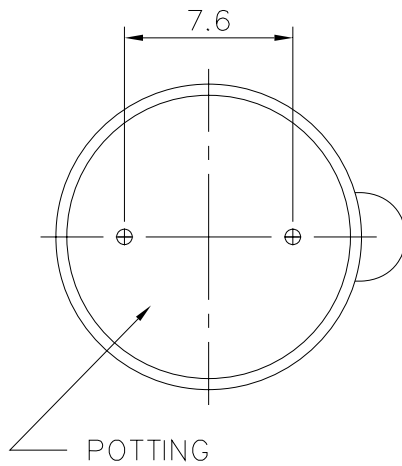
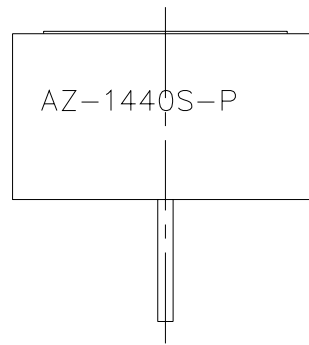
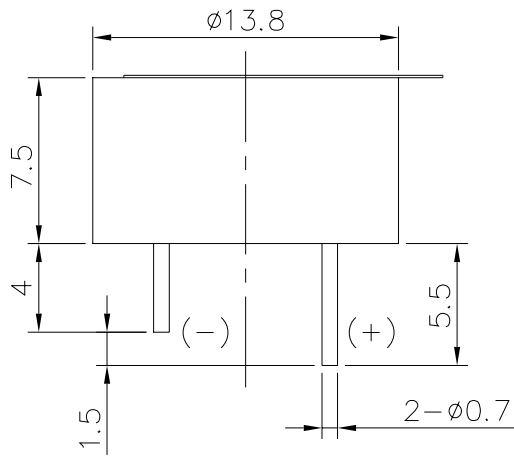
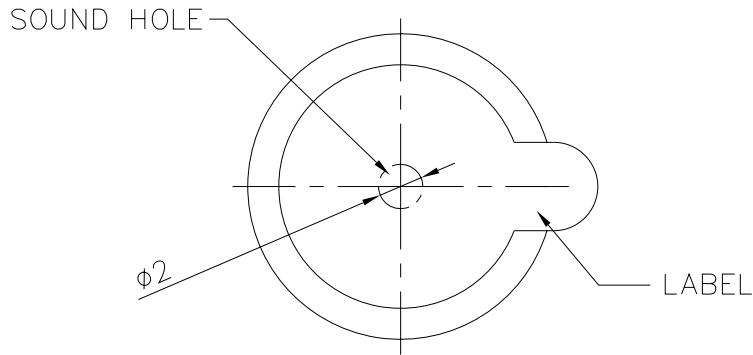
Atmospheric pressure : 860mbar to 1060mbar

## Standard Test Fixture



## Frequency Response Curve





TITLE: <i>PIEZO BUZZER INDICATOR</i>		DRAWN: <i>Richard</i> 04/18/2007	SCALE: 3:1	SHEET: 1 : 1
PART NO. <i>AZ-1440S-P</i>		DESIGNED: <i>R &amp; D DEP.</i>	UNITS: <i>mm</i>	
DWC NO. <i>DTP-1001</i>		CHECKED:	TOLERANCE ± 0.5	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
REV <i>1</i>		MATERIAL: <i>ABS</i>		

*A & B Components*

## 4.RELIABILITY TEST

Item		Test conditions	Evaluation standard						
01	High temp.Storage life	The part shall be capable of withstanding a storage Temperature of 85°C for 96 hours.	After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be 74dB or more.						
02	Low temp.Storage life	The part shall be capable of withstanding a storage Temperature of -40°C for 96 hours.							
03	Temp. cycle	The part shall be subjected 5 cycles. One cycle shall consist of; <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">-40°C</td> <td style="text-align: center;">85°C</td> </tr> <tr> <td style="text-align: center;">30min</td> <td style="text-align: center;">30min</td> </tr> <tr> <td colspan="2" style="text-align: center;">60min</td> </tr> </table>		-40°C	85°C	30min	30min	60min	
-40°C	85°C								
30min	30min								
60min									
04	Temp./Humidity cycle	The part shall be subjected with 90~95% R.H at +40°C for 96 hours.							
05	Free drop	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).							
06	Lead Strength	Pull lead with a force of 10N,on the direction of the lead axis for 10 :10±1 sec							
07	Vibration	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm (9.3G). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.							

## 5.SOLDERING CONDITION

Recommend using constant branding iron in **30W**

Soldering : 360±5°C / 2 Sec.

Solderbath : 260±5°C / 2 sec