
SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER
Part No.	AZ-1640E-W
Customer Approval	

Approved By	Checked By	Made By



A & B Components

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

1. Specifications

AZ-1640E-W

Items		Units	Specifications	Conditions
01	Rated Voltage	Vp-p	9	(square wave)
02	Operating Voltage	Vp-p	3 ~ 30	
03	Rated Current	mA(Max)	7	
04	Sound Output At 10cm	dBA(Min)	80	At 9Vp-p ,4KHz / 10cm
05	Resonant Frequency	Hz	4000 $\pm$ 500	
06	Capacitance	pF	15000 $\pm$ 30%	At 120Hz
07	Operating Temp.	℃	-20 ~ +70	
08	Storage Temp.	℃	-30 ~ +80	
09	Weight	g	1	

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35℃

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

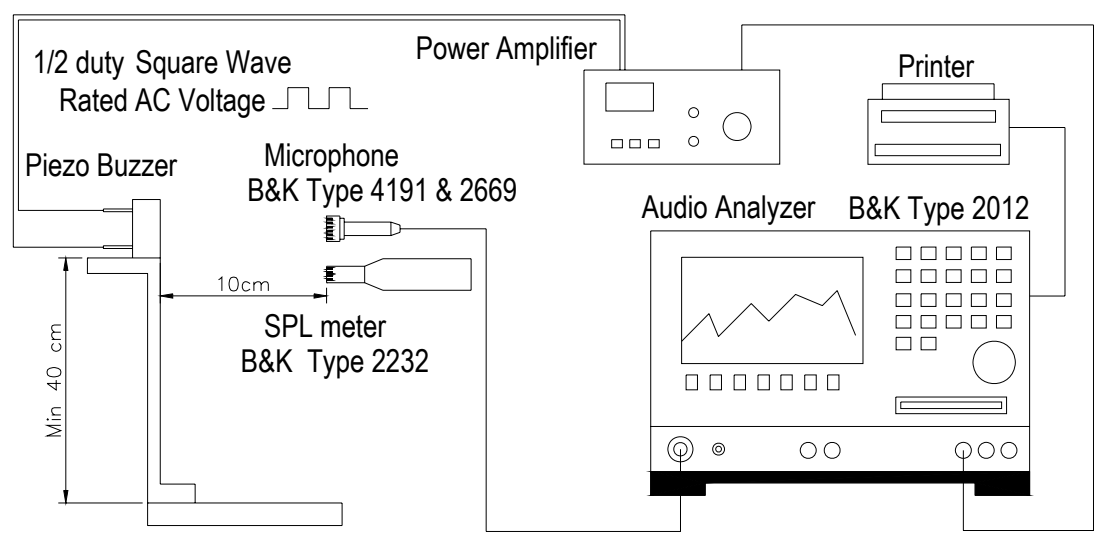
JUDGEMENT

Temperature : 20 $\pm$ 3℃

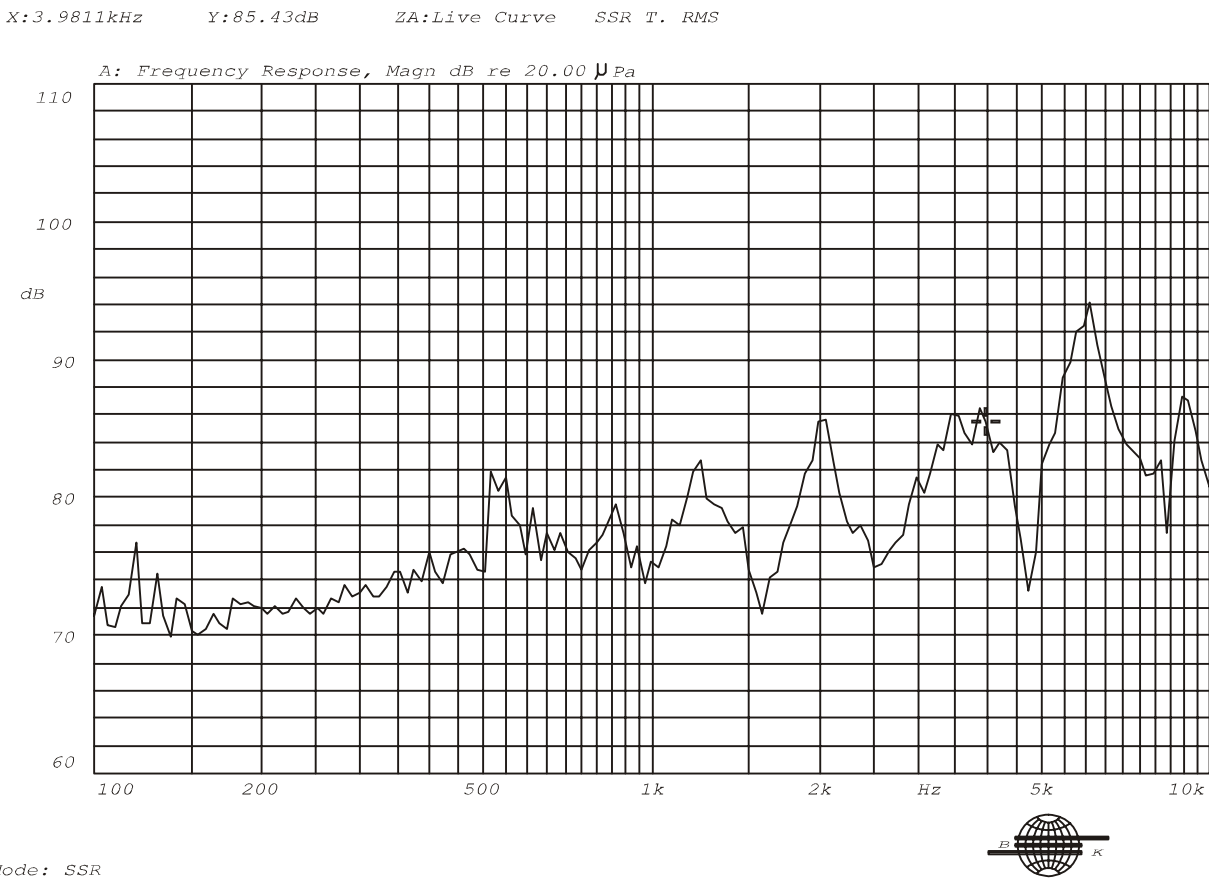
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

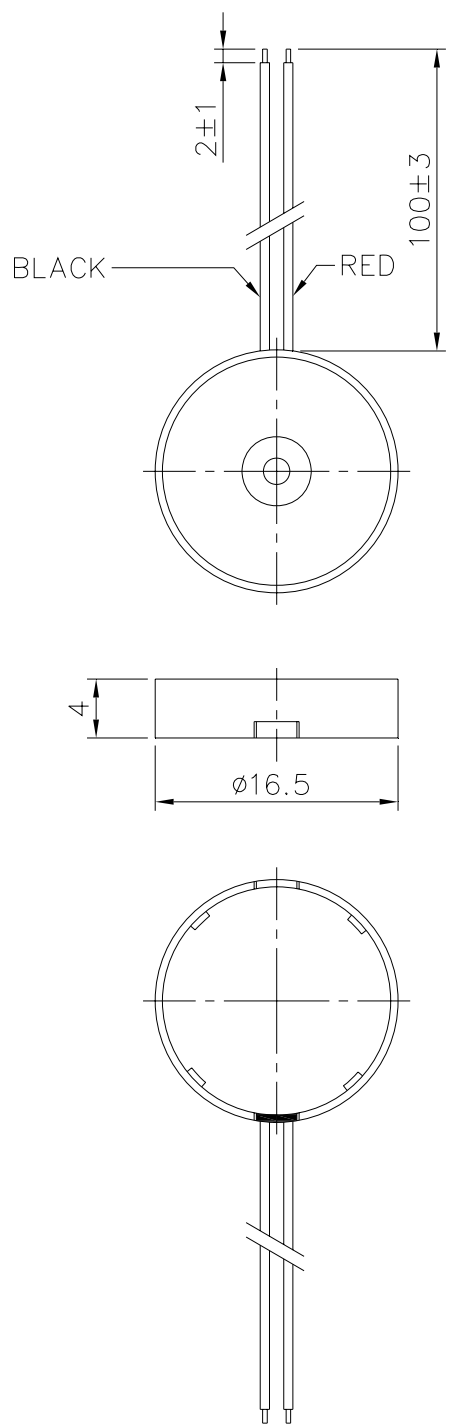
2-2. Standard Test Fixture



2-3. Frequency Response Curve



REV NO.	REVISION NOTE	APPROVAL	DATE
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NOTE:
LEAD WIRES SPEC.:UL1571 30AWG

TITLE: <i>PIEZO BUZZER EXTERNAL</i>		DRAWN: <i>Richard</i> 04/16/2001	SCALE: 2:1	SHEET: 1 : 1
PART NO. <i>AZ-1640E-W</i>	1	DESIGNED: R & D DEP.	UNITS: <i>mm</i>	
DWG NO. <i>DTP-1007</i>		CHECKED:	TOLERANCE ± 0.5	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
	REV	MATERIAL: <i>ABS</i>	ONE PLACE DECIMAL ± ***	
			TWO PLACE DECIMAL ± ***	
			THREE PLACE DECIMAL ± ***	

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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 77dB 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 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.	