
SPECIFICATION FOR APPROVAL

| | |
|-------------------|--------------|
| Product | PIEZO BUZZER |
| Part No. | AZ-1348E-W |
| Customer Approval | |

| Approved By | Checked By | Made By |
|-------------|------------|---------|
| | | |



A & B Components

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

1. Specifications

AZ-1348E-W

| Items | | Units | Specifications | Conditions |
|-------|--------------------|----------|----------------|--------------------------|
| 01 | Rated Voltage | Vp-p | 10 | (square wave) |
| 02 | Operating Voltage | Vp-p | 3 ~ 30 | |
| 03 | Rated Current | mA(Max) | 5 | |
| 04 | Sound Output Level | dBA(Min) | 80 | At 10Vp-p ,4.8KHz / 10cm |
| 05 | Resonant Frequency | Hz | 4800 | |
| 06 | Capacitance | pF | 15000±30% | At 120Hz |
| 07 | Operating Temp. | °C | -20 ~ +60 | |
| 08 | Storage Temp. | °C | -30 ~ +70 | |
| 09 | Weight | g | 1 | |

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

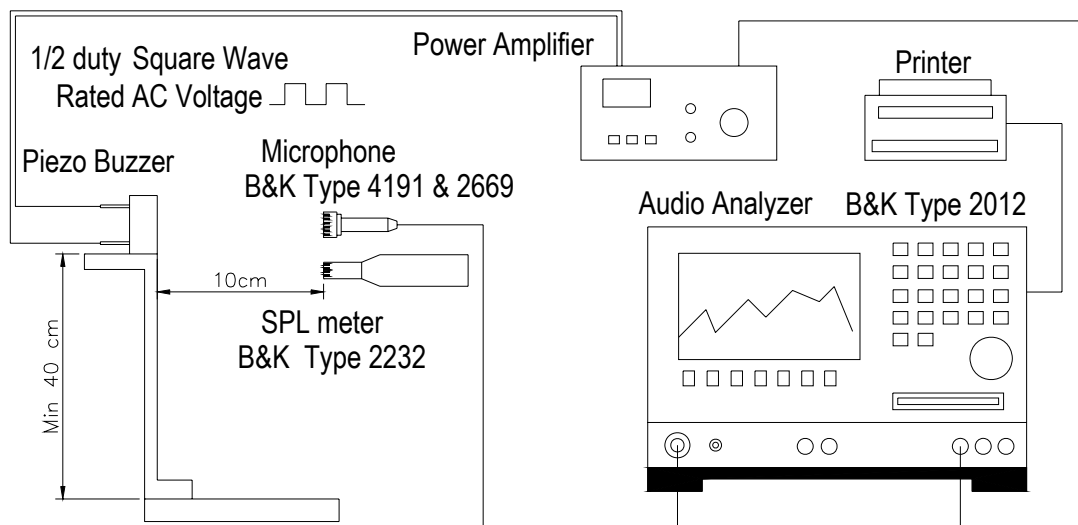
JUDGEMENT

Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

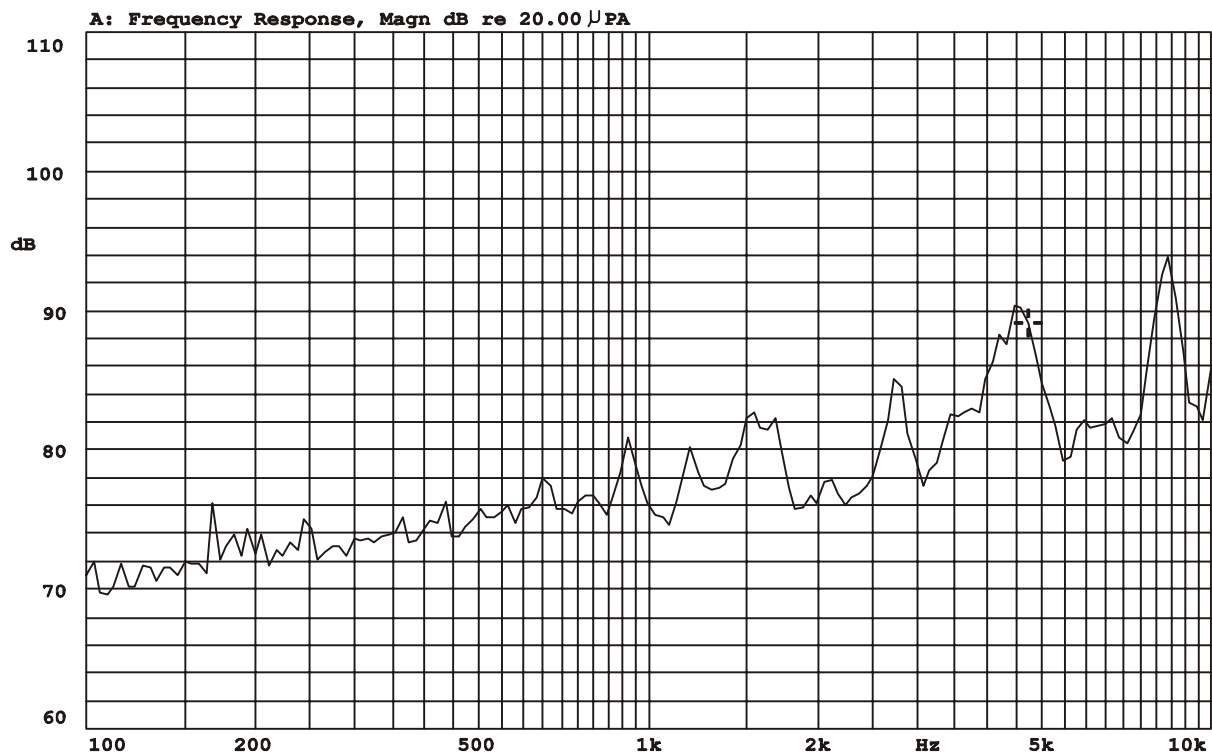
Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Test Fixture



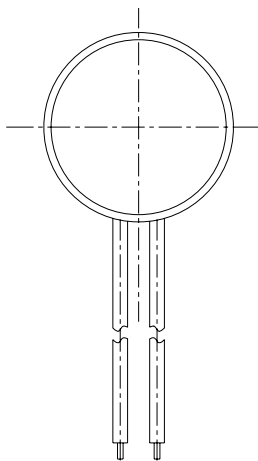
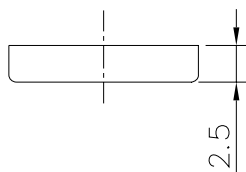
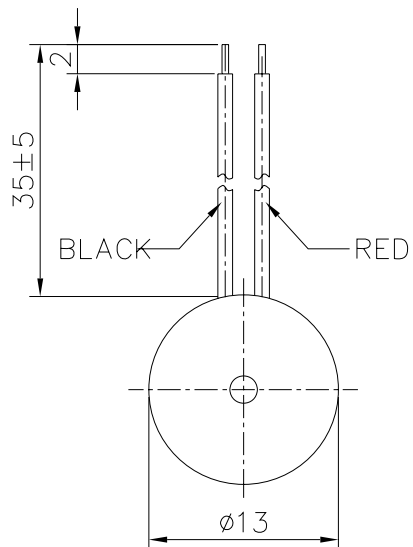
2-3. Frequency Response Curve

X:4.7315kHz Y:89.16dB ZA:Live Curve SSR T. RMS



Mode: SSR





| | | | | |
|----------------------------|----------|---------------------------------|--|---------------|
| TITLE: <i>PIEZO BUZZER</i> | | DRAWN: <i>Richard</i> 2003/5/22 | SCALE: 2:1 | SHEET: 1 of 1 |
| PART NO. <i>AZ-1348E-W</i> | | DESIGNED: <i>R & D DEP.</i> | UNITS: <i>mm</i> | |
| DWG NO. <i>DPT-1010</i> | 1 REV | CHECKED: | TOLERANCE ± 0.5 | |
| | | APPROVAL: | UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± *** | |
| | | MATERIAL: <i>ABS</i> | | |

A & B Components

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. | |