# SPECIFICATION FOR APPROVAL

| | |
|---|---|
| Product | PIEZO BUZZER |
| Part No. | AZ-3025E-W1H |
| Customer Approval | |

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

**A & B Components**

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

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# AZ-3025E-W1H

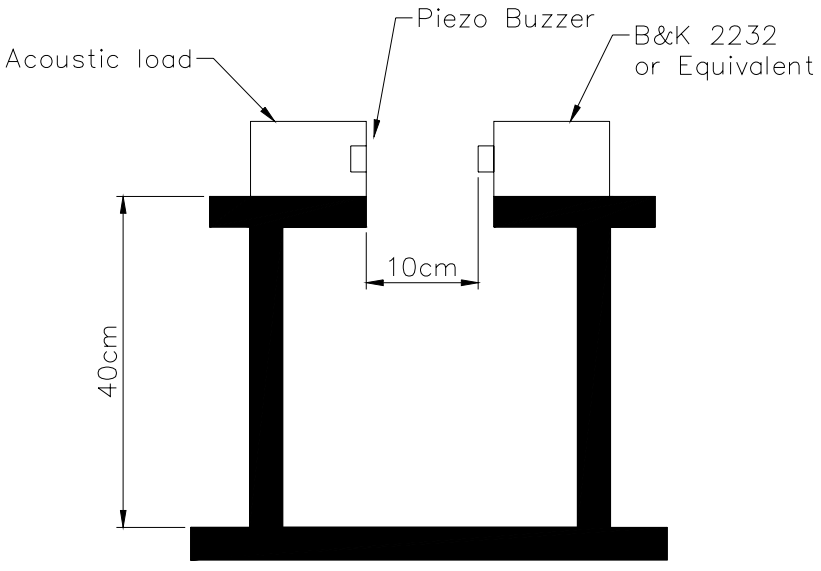
| Items | | Units | Specifications | Conditions |
|---|---|---|---|---|
| 01 | Rated Voltage | Vp-p | 12 | Square Wave |
| 02 | Operating Voltage | Vp-p | 3~30 | |
| 03 | Rated Current | mA(Max) | 15 | 12Vp-p / 2.5KHz |
| 04 | Sound Output At 10cm | dBA(Min) | 80 | At 12Vp-p / 2.5KHz |
| 05 | Resonant Frequency | Hz | 2500±500 | |
| 06 | Capacitance at 120Hz | nF | 20±30% | |
| 07 | Operating Temp. | ℃ | -20 ~ +60 | |
| 08 | Storage Temp. | ℃ | -30 ~ +70 | |
| 09 | Weight | g | 3.5 | |

## Measurement Condition

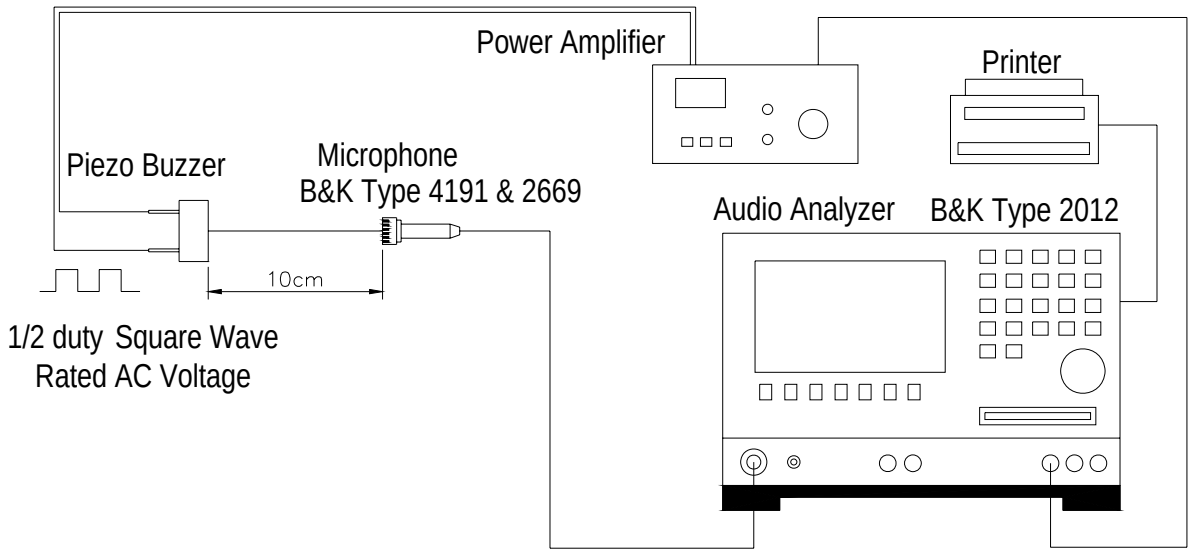
Test and measurement will be carried out under normal condition of temperature
within 5℃to 35℃,relative humidity within 45% to 85% and air pressure of 860mbar to 1060mbar.
Should uncertainly arise in data obtained from the above atmosphere, control of temperature
At 20℃±2℃ and relative humidity within 60% and 70%, with air pressure remaining unchanged,
To be enforced.

## Value Applying Rated Voltage

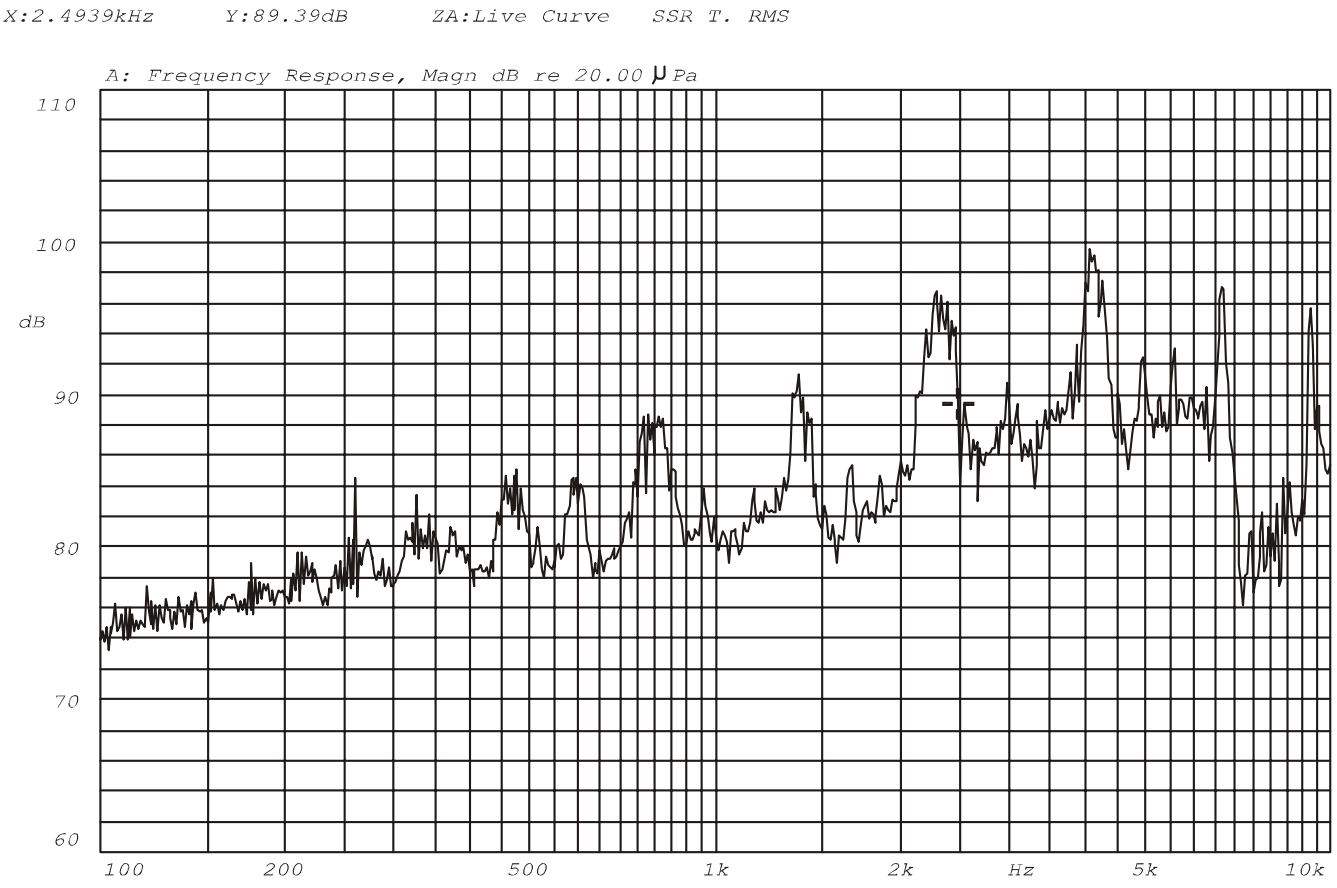
## STANDARD TEST FIXTURE



# Standard test condition of piezo buzzer

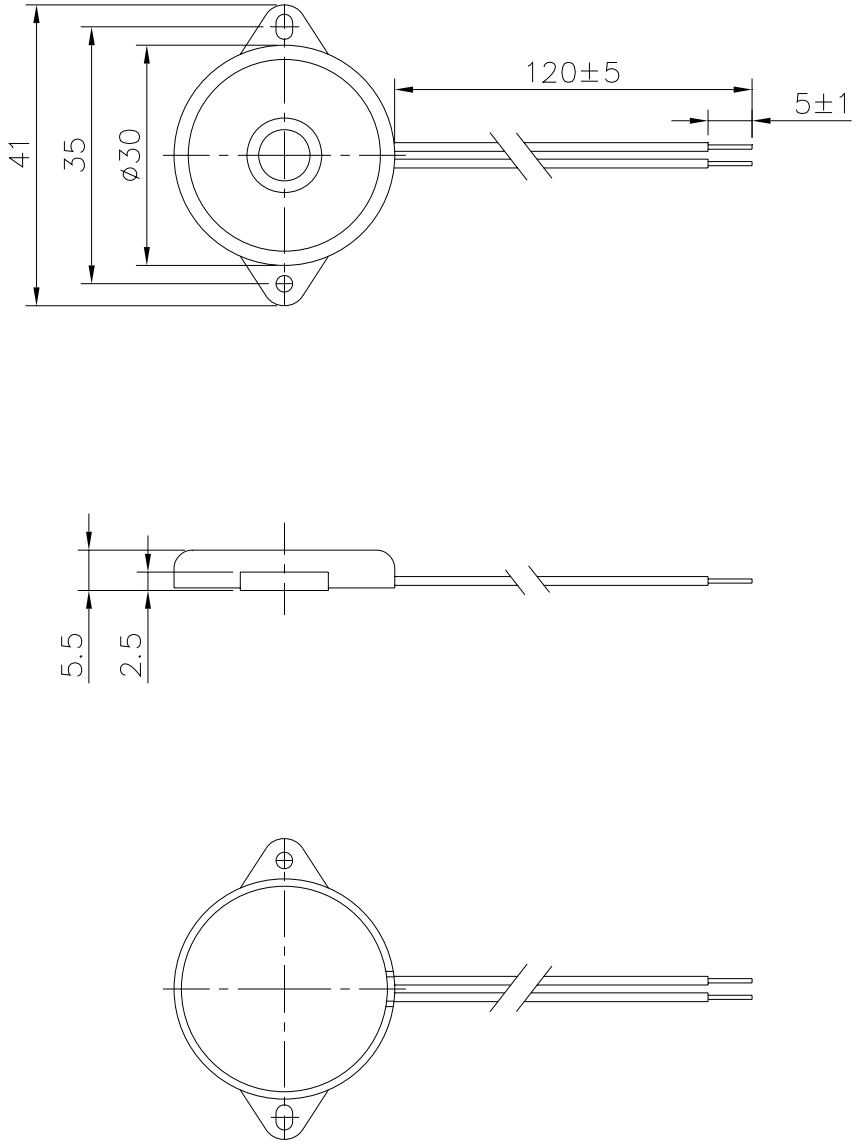



# Frequency Response Curve




Mode: SSR

| REV NO. | REVISION NOTE | APPROVAL | DATE |
|---|---|---|---|




NOTE:
LEAD WIRES SPEC.: UL1095 AWG28

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|---|---|---|---|
| TITLE: PIEZO BUZZER | | DRAWN: Richard 08/23/2002 | SCALE: 1:1 SHEET: 1 of 1 |
| PART NO. AZ-3025E-W1H | 1 | DESIGNED: R & D DEP. | UNITS: mm |
| DWG NO. DTP-1183 | REV | CHECKED: | TOLERANCE ± 0.5 |
| | | APPROVAL: | UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± *** |
| | | MATERIAL: ABS | |

A & B Components

# RELIABILITY TEST

## AZ-3025E-W1H

| Item | | Conditions | Evaluation standard |
|---|---|---|---|
| 01 | Low Temp. Storage Test | A℃±2℃ ,240Hr | (S.P.L)Test before numerical ±10dB<br>(Frequency)Test before numerical ±10%<br>(Current)Test before numerical ±10%<br>(No crake is allowed on the part surface after Free drop test )<br>● After the test ,the part shall meet the specifications without any degradation in appearance and performance |
| 02 | High Temp. Storage Test | B℃±2℃ RH50% ,240Hr | |
| 03 | Temp./Humidity Storage Test | 40℃±2℃ , RH90-95%<br>240Hr | |
| 04 | Thermal Shock Test | A℃±2℃(1Hr)→ ,20℃±2℃(1Hr)<br>B℃±2℃(1Hr)→ ,20℃±2℃(1Hr)10 cycle | |
| 05 | Vibration Test | 10-55Hz/1min<br>amplitude1.5mm,X,Y,Z,3 directions | |
| 06 | Mechanical Shock Test | +100G,Sine wave, XYZ , 3 impacts per axis | |
| 07 | Free Drop Test | The part shall be dropped freely from a height of 75 cm onto concrete 1 time in 2 axes (total 4 times ) | |
| 08 | Life Burning Test | The part shall be subjected to 1000 hrs in the room temp with rated voltage applied | |
| 09 | Lead Wire / Pin Pull Test | The Part checking standard :<br>Following supplier's Spec.<br>Finished–part checking Standard<br>vertical Pull<br>i)100g MIN<br>0.05mm Thickness of ceramic<br>ii)300g MIN<br>0.1mm≦Thickness of ceramic<br>b: Horizontal Pull<br>i)700g MIN | |

Remark : "A" means Storage low temp. "B" means Storage high temp