

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

| | |
|--------------------------|--------------------------|
| Product | PIEZO BUZZER |
| Part No. | AZ-1240E-P (RoHS) |
| Customer Approval | |

| Approved By | Checked By | Made By |
|---------------------------|---------------------------|---------------------------|
| 工程部 王台平 JUL-23-2004 | 工程部 劉民祥 JUL-23-2004 | 工程部 許俊程 JUL-23-2004 |



ADVANCED ACOUSTIC TECHNOLOGY CORP.

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1. Specifications

AZ-1240E-P (RoHS)

| Items | | Units | Specifications | Conditions |
|-------|----------------------|----------|----------------|------------------------|
| 01 | Rated Voltage | Vp-p | 12 | (square wave) |
| 02 | Operating Voltage | Vp-p | 1~30 | |
| 03 | Rated Current | mA(Max) | 3 | |
| 04 | Sound Output At 10cm | dBA(Min) | 80 | At 12Vp-p ,4KHz / 10cm |
| 05 | Resonant Frequency | Hz | 4000±500 | |
| 06 | Capacitance | pF | 8000±30% | At 120Hz |
| 07 | Operating Temp. | °C | -20 ~ +70 | |
| 08 | Storage Temp. | °C | -40 ~ +85 | |
| 09 | Weight | g | 2.0 | |

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 5 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

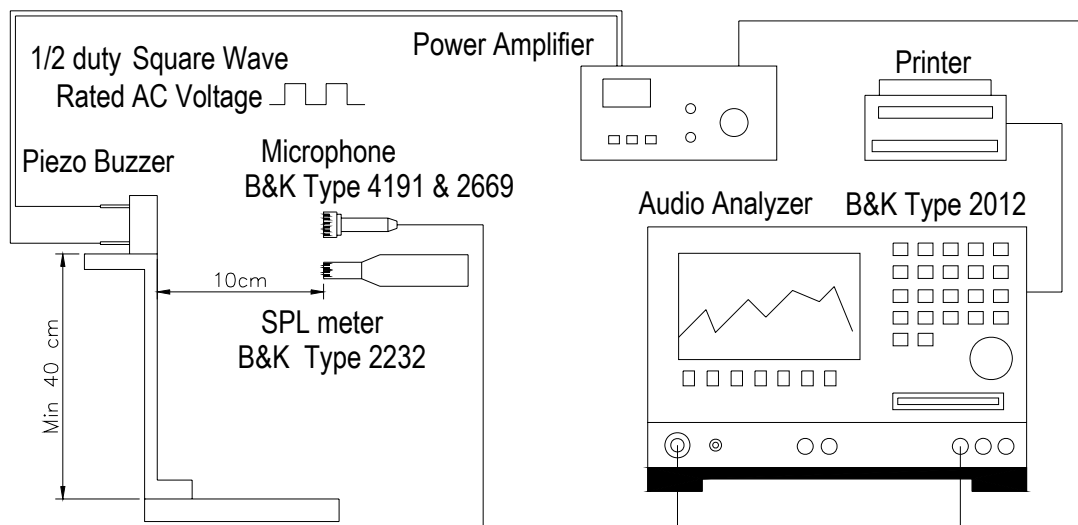
JUDGEMENT

Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Test Fixture



2-3. Frequency Response Curve

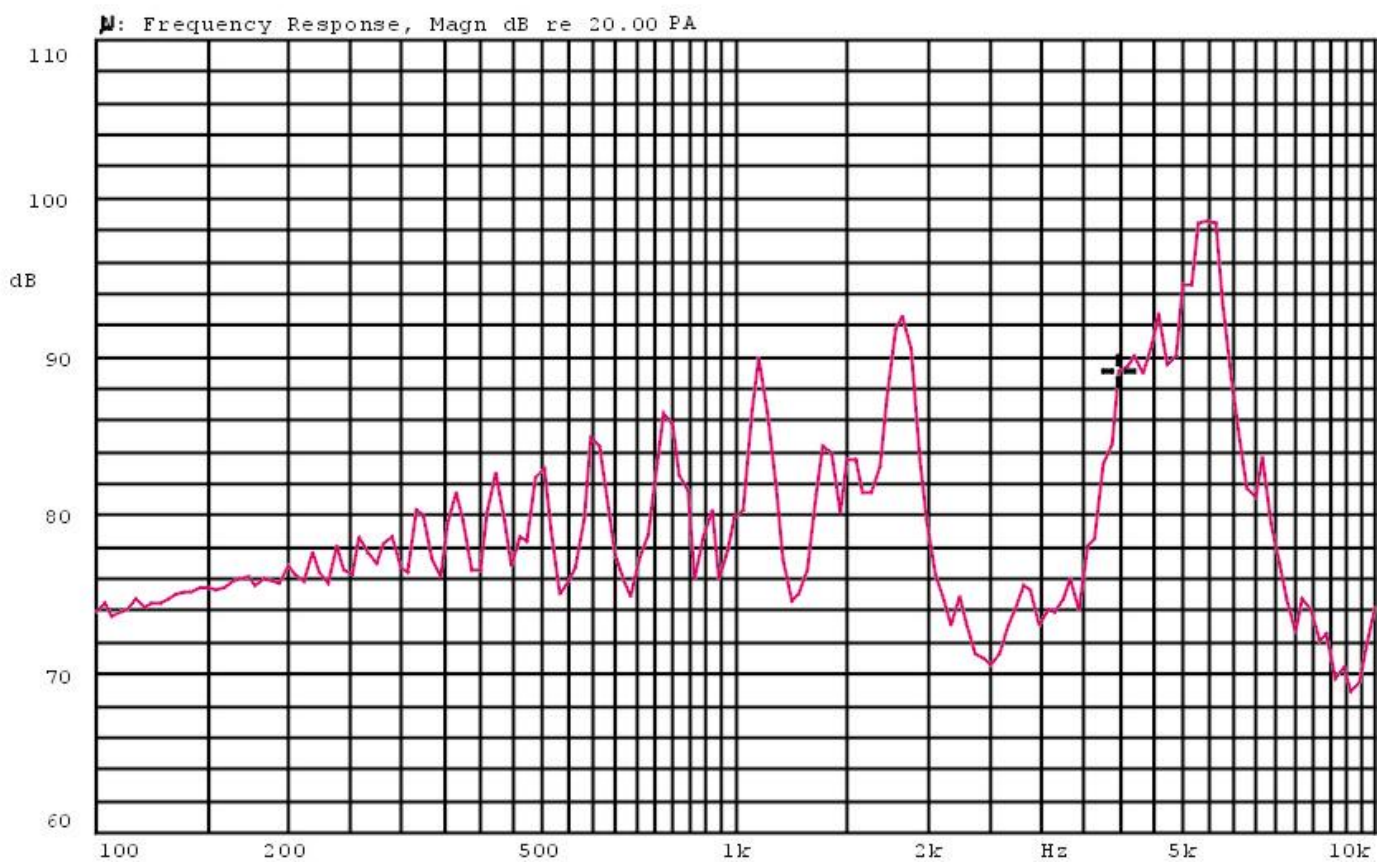
AZ-1240E-P

X:3.9811kHz

Y:89.11dB

ZA:Live Curve

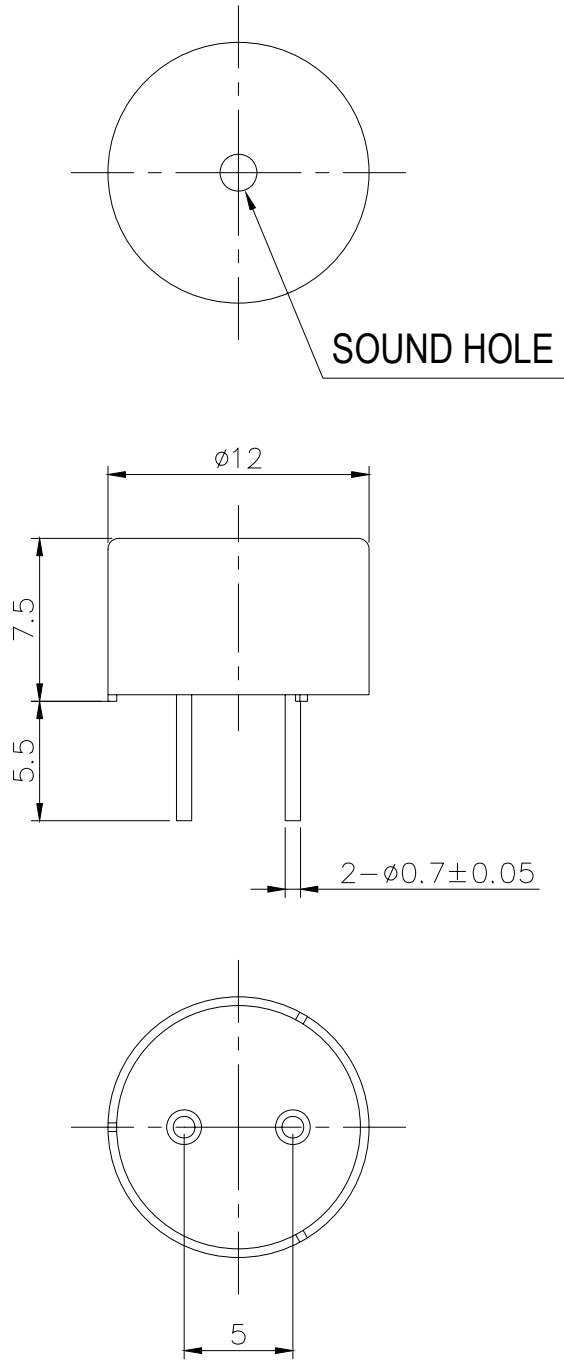
SSR T. RMS



Mode: SSR



3. Dimensions



WAVE SOLDER AND WASH NOT ALLOWED

| | | | | |
|----------------------------|--|-----------------------------------|-------------------------------|--------------|
| TITLE: <i>PIEZO BUZZER</i> | | DRAWN: <i>JCHEN</i> 07/23/2004 | SCALE: 3:1 | SHEET: 1 : 1 |
| PART NO. <i>AZ-1240E-P</i> | | DESIGNED: <i>R & D OF AAT</i> | UNITS: <i>mm</i> | |
| DWG NO. <i>DPT-1032</i> | | CHECKED: | TOLERANCE ± 0.3 | |
| | | APPROVAL: | UNLESS OTHERWISE SPECIFIED: | |
| REV | | MATERIAL: | 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 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. | |