

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

| | |
|-------------------|-------------------|
| Product | PIEZO BUZZER |
| Part No. | AZ-1248E-P (RoHS) |
| Customer Approval | |
| Customer Project | |

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



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EDITION:1.1

1. Specifications

AZ-1248E-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) | 17 | |
| 04 | Sound Output | dBA(Min) | 85 | Rated Voltage Rated Frequency distance 10cm |
| 05 | Resonant Frequency | Hz | 4800±500 | |
| 06 | Capacitance | pF | 15000±30% | At 120Hz |
| 07 | Operating Temp. | ℃ | -30 ~ +75 | |
| 08 | Storage Temp. | ℃ | -40 ~ +85 | |
| 09 | Weight | g | 0.7 | |

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35℃

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

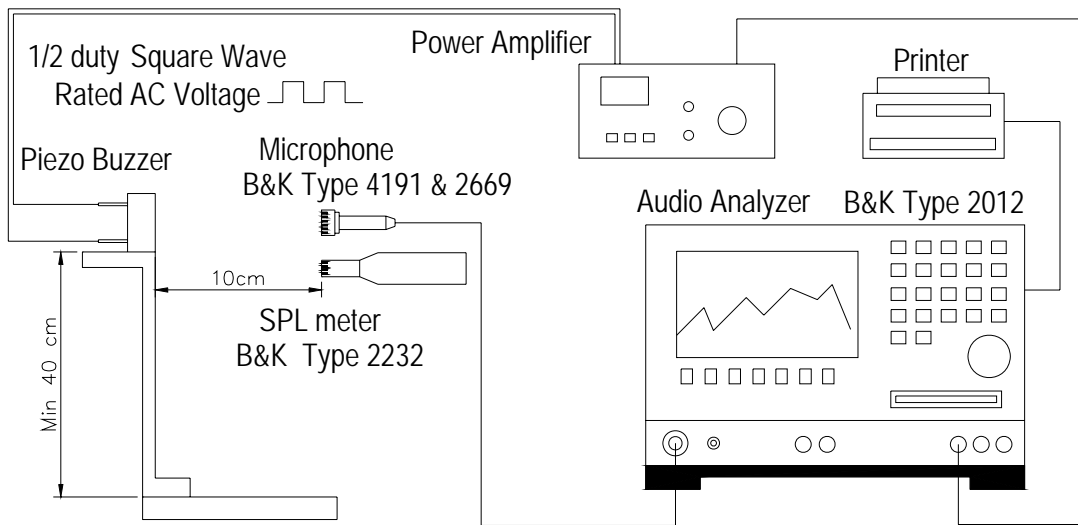
JUDGEMENT

Temperature : 20±3℃

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

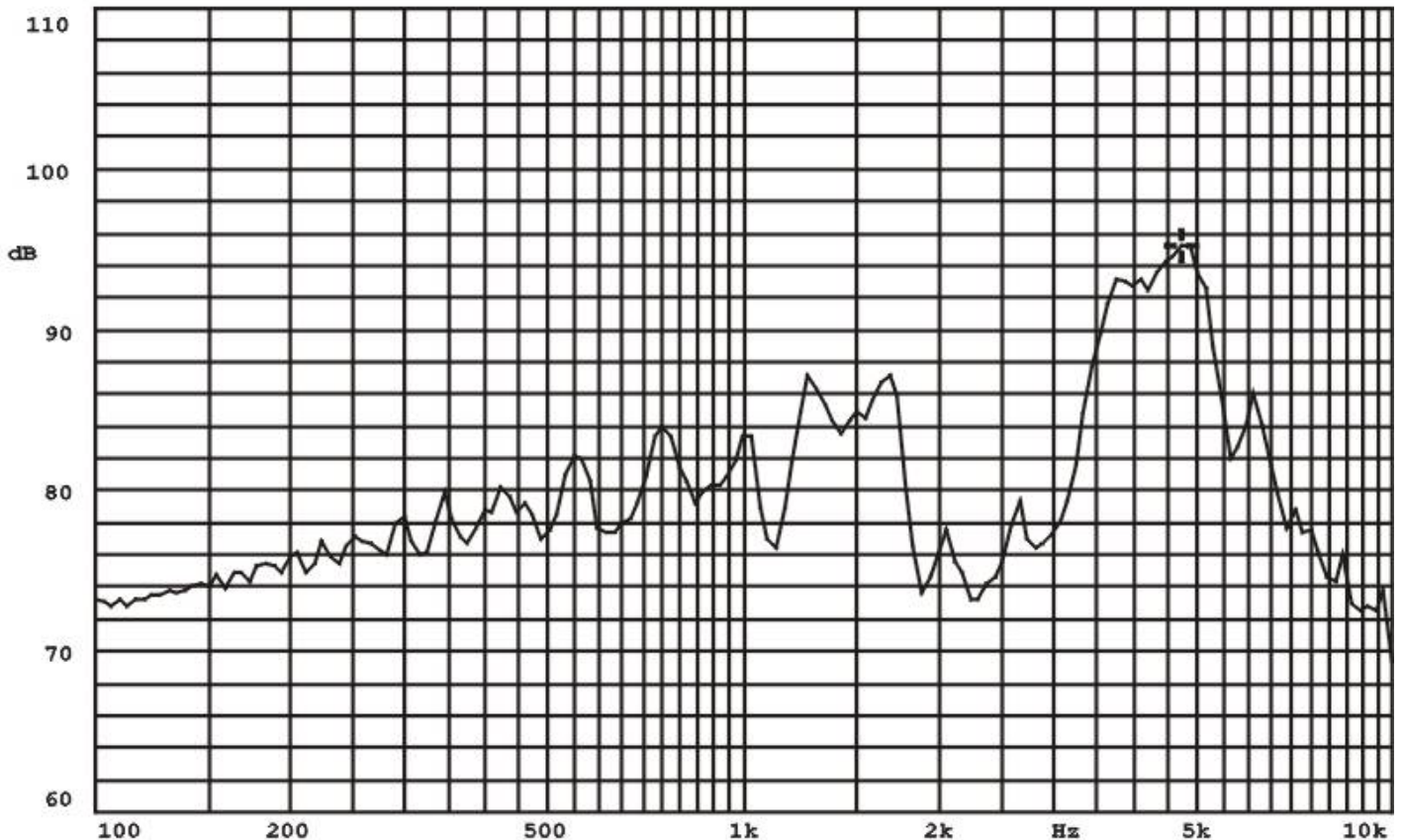
2-2. Standard Test Fixture



2-3. Frequency Response Curve

X:4.7315kHz Y:95.22dB ZA:Live Curve SSR T. RMS

A: Frequency Response, Magn dB re 20.00µPa

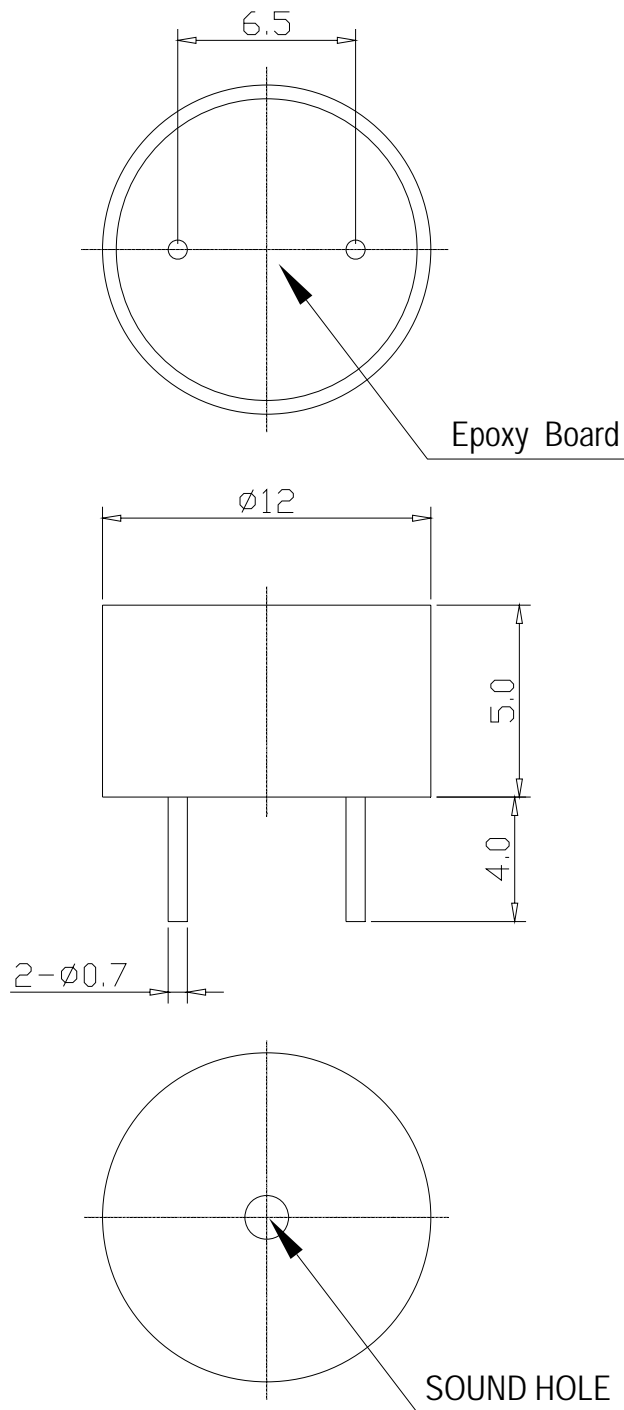


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Mode: SSR



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



RoHS

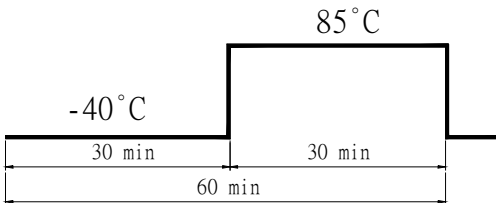
WAVE SOLDER AND WASH NOT ALLOWED

| | | | | | | | |
|----------|--------------|-----------|------------------|-------------------------------|-----|-----------|-----------|
| TITLE: | PIEZO BUZZER | DRAWN: | Jason 2009/06/11 | SCALE: | 3:1 | SHEET: | 1 : 1 |
| PART NO. | AZ-1248E-P | DESIGNED: | R & D OF AAT | UNITS: | mm | TOLERANCE | ± 0.3 |
| DWG NO. | HS-09061101 | CHECKED: | | UNLESS OTHERWISE SPECIFIED: | | | |
| | | APPROVAL: | | ONE PLACE DECIMAL \pm *** | | | |
| | | MATERIAL: | Black MPP0 | TWO PLACE DECIMAL \pm *** | | | |
| | | | | THREE PLACE DECIMAL \pm *** | | | |



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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 78dB 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 | <p>The part shall be subjected 10 cycles. One cycle shall consist of;</p>  <p>The diagram shows a temperature cycle with two horizontal segments. The first segment is at -40°C and is labeled '30 min'. The second segment is at 85°C and is also labeled '30 min'. A bracket below the entire cycle indicates a total duration of '60 min'.</p> | |
| 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 | <p>The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute.</p> <p>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.</p> | |

5.SOLDERING CONDITION

Recommend using constant branding iron in 30W, and in temperature range 320±10°C.

Soldering time 2 seconds.