
SPECIFICATION FOR APPROVAL

| | |
|-------------------|--------------|
| Product | PIEZO BUZZER |
| Part No. | AZ-4328E-P |
| Customer Approval | |

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



A & B Components

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

1. Specifications

AZ-4328E-P

| Items | | Units | Specifications | Conditions |
|-------|--------------------|----------|----------------|--|
| 01 | Rated Voltage | Vp-p | 10 | (square wave) |
| 02 | Operating Voltage | Vp-p | 3 ~ 30 | |
| 03 | Rated Current | mA(Max) | 12 | |
| 04 | Sound Output | dBA(Min) | 100 | Rated Voltage , Rated Frequency / distance 10cm |
| 05 | Resonant Frequency | Hz | 2800 | |
| 06 | Capacitance | pF | 35000 ±30% | At 120Hz |
| 07 | Operating Temp. | °C | -30 ~ +75 | |
| 08 | Storage Temp. | °C | -40 ~ +85 | |
| 09 | Weight | g | 20 | |

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

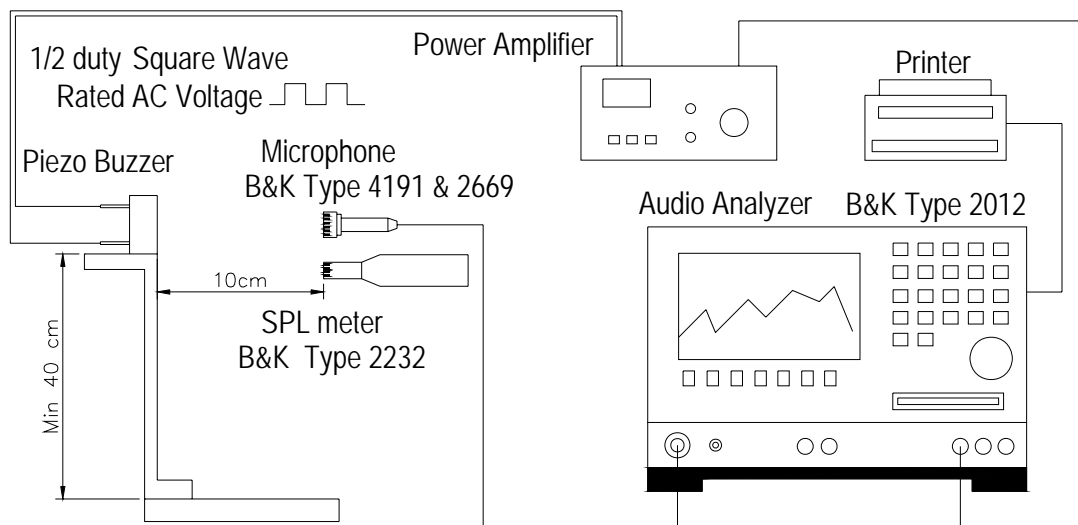
JUDGEMENT

Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

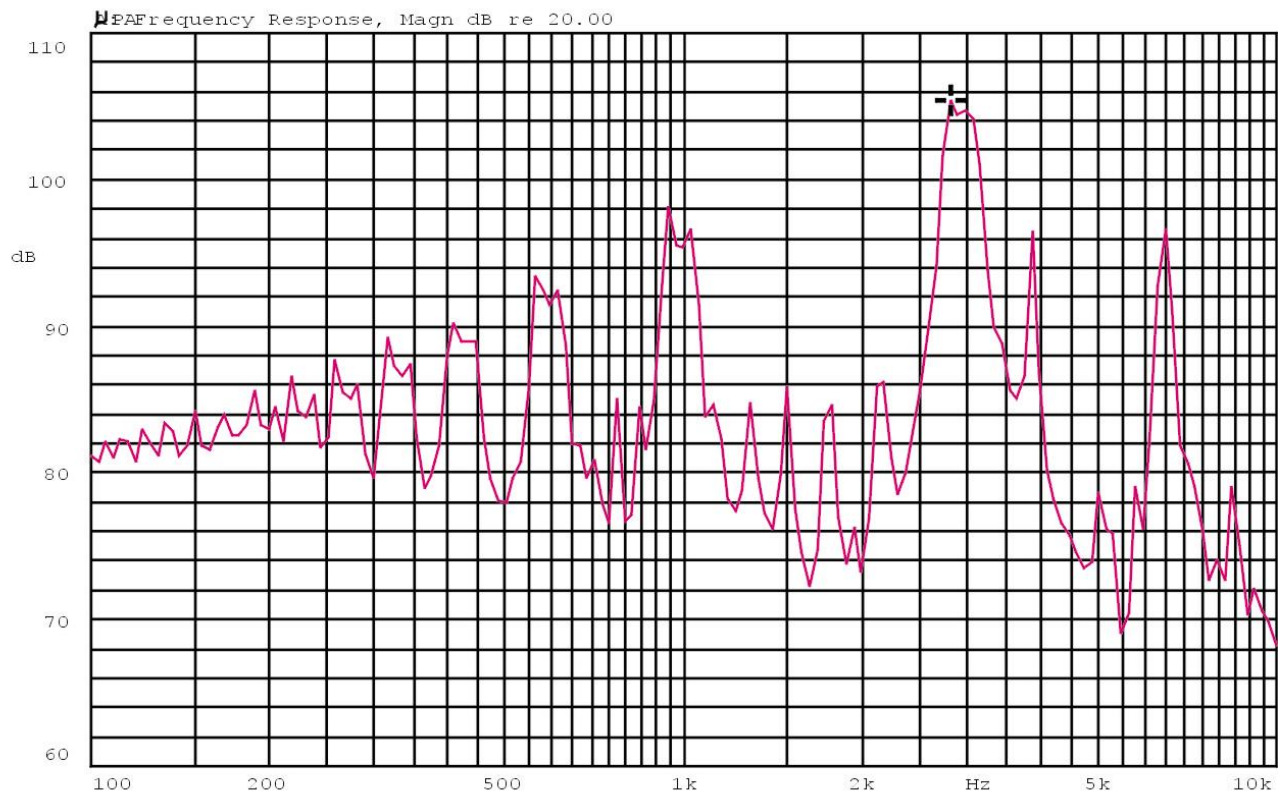
2-2. Standard Test Fixture



2-3. Frequency Response Curve

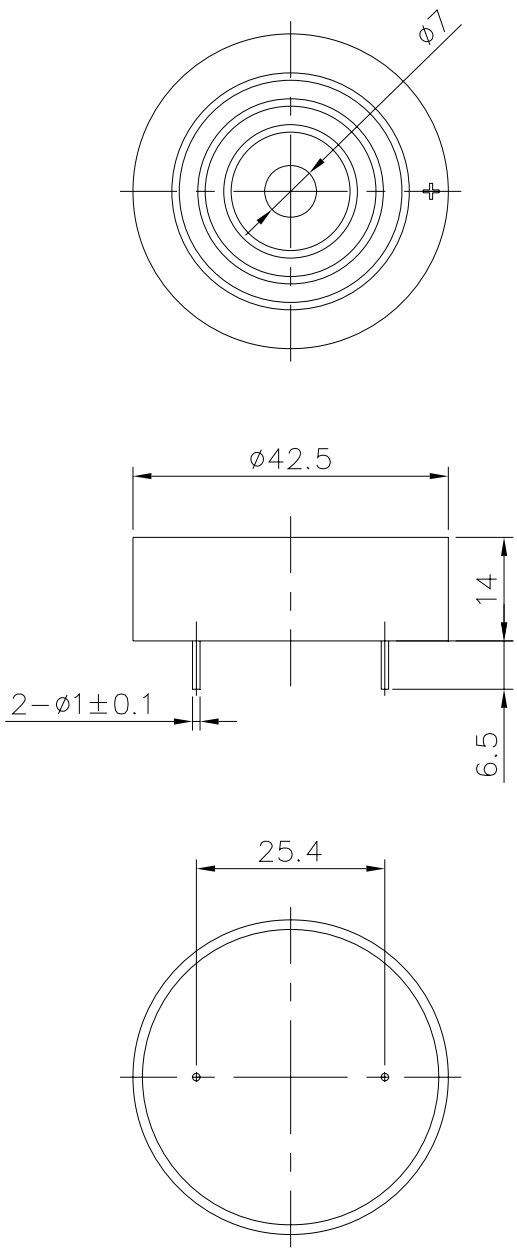
AS-4328E-P

X:2.8184kHz Y:105.44dB ZA:Live Curve SSR T. RMS



Mode: SSR





| | | | |
|----------------------------|----------------------------------|--|--------------|
| TITLE: <i>PIEZO BUZZER</i> | DRAWN: <i>Richard</i> 09/25/2006 | SCALE: 1:1 | SHEET: 1 : 1 |
| PART NO. <i>AZ-4328E-P</i> | DESIGNED: <i>R & D DEP.</i> | UNITS: <i>mm</i> | |
| DWG NO. <i>DTP-1119</i> | 1 | TOLERANCE ± 0.3 | |
| | REV | UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL \pm *** TWO PLACE DECIMAL \pm *** THREE PLACE DECIMAL \pm *** | |
| | MATERIAL: <i>ABS</i> | | |

A & B Components

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 74dB 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 | The part shall be subjected 5 cycles. One cycle shall consist of; <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">-40°C</td> <td style="text-align: center;">85°C</td> </tr> <tr> <td style="text-align: center;">30min</td> <td style="text-align: center;">30min</td> </tr> <tr> <td colspan="2" style="text-align: center;">60min</td> </tr> </table> | | -40°C | 85°C | 30min | 30min | 60min | |
| -40°C | 85°C | | | | | | | | |
| 30min | 30min | | | | | | | | |
| 60min | | | | | | | | | |
| 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 | The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. 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. | | | | | | | |

SOLDERING CONDITION

Recommend using constant branding iron in **30W**, and in temperature range **350±10°C**.
Soldering time 2 seconds.