# SPECIFICATION FOR APPROVAL

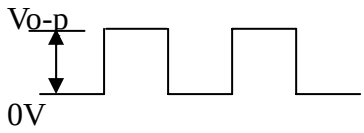
| | |
|---|---|
| Product | MAGNETIC BUZZER |
| Part No. | AC-905I-RPA |
| Customer Approval | |

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

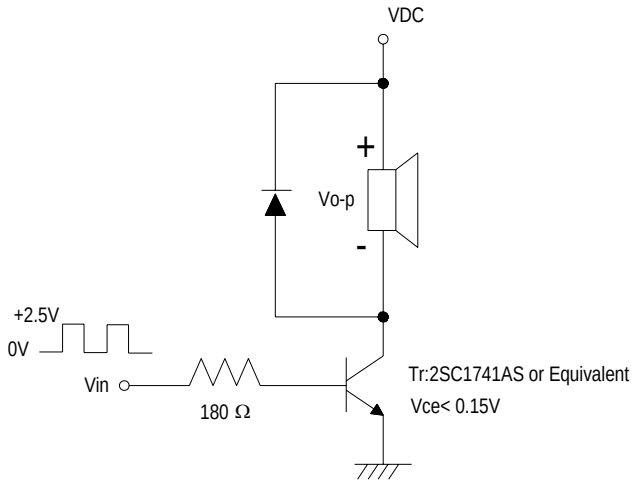
**A & B Components**

http://www.speaker-tw.com

# AC-905I-RPA

| Items | | Units | Specifications | | | Conditions |
|---|---|---|---|---|---|---|
| 01 | Rated Voltage | Vo-p | 5.0 | | |   |
| 02 | Operating Voltage | Vo-p | 4.0~6.0 | | | |
| 03 | Mean Current | mA (Max) | 70 | | | Applying rated voltage, rated frequency Square wave,1/2 duty subject to standard state. |
| 04 | Direct Current Resistance | Ohm | 30±5 | | | |
| 05 | Sound Output | dBA (min) | 85 | | | Distance at 10cm,applying rated voltage, rated frequency square wave, 1/2duty subject to standard state. |
| 06 | Rated Frequency | Hz | 2731 | | | |
| 07 | Operating Temp. | ℃ | -40 ~ +85 | | | |
| 08 | Storage Temp. | ℃ | -50 ~ +95 | | | |
| 09 | Dimension | mm | Φ9x6 | Height | 4 | See attached drawing. |
| 10 | Weight | Gram | 1 | | | |
| 11 | Terminal | | Two Pins | | | See attached drawing. |

※Standard Drive Circuit:




※Standard Conditions:

Temperature 15 ~ 35℃

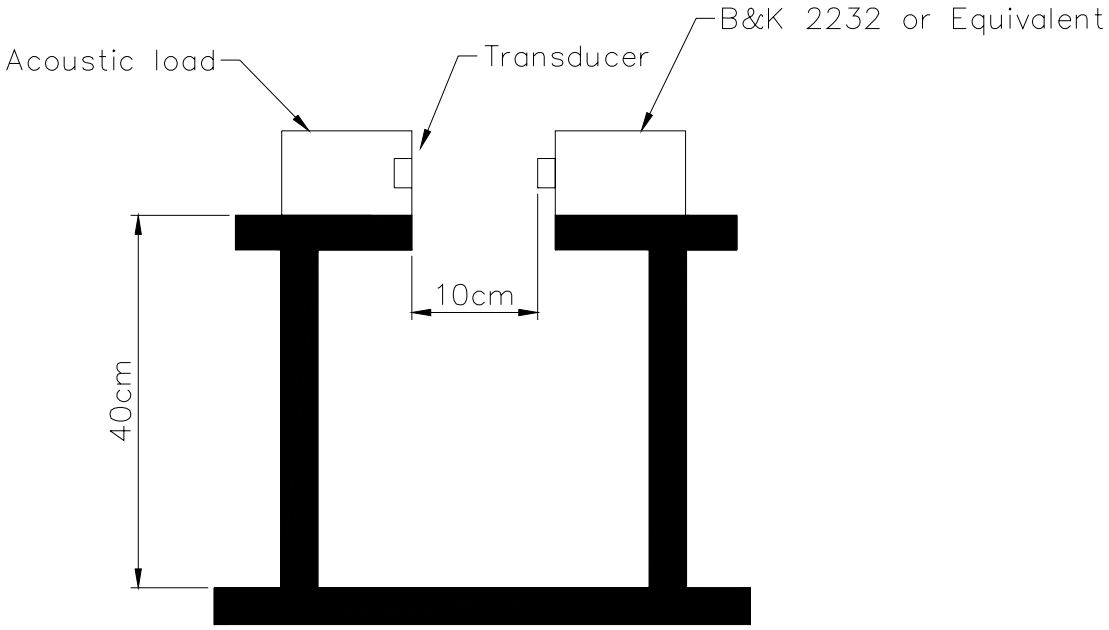
Humidity 25 ~ 80 %

Air pressure 860 ~ 1060 HPa.

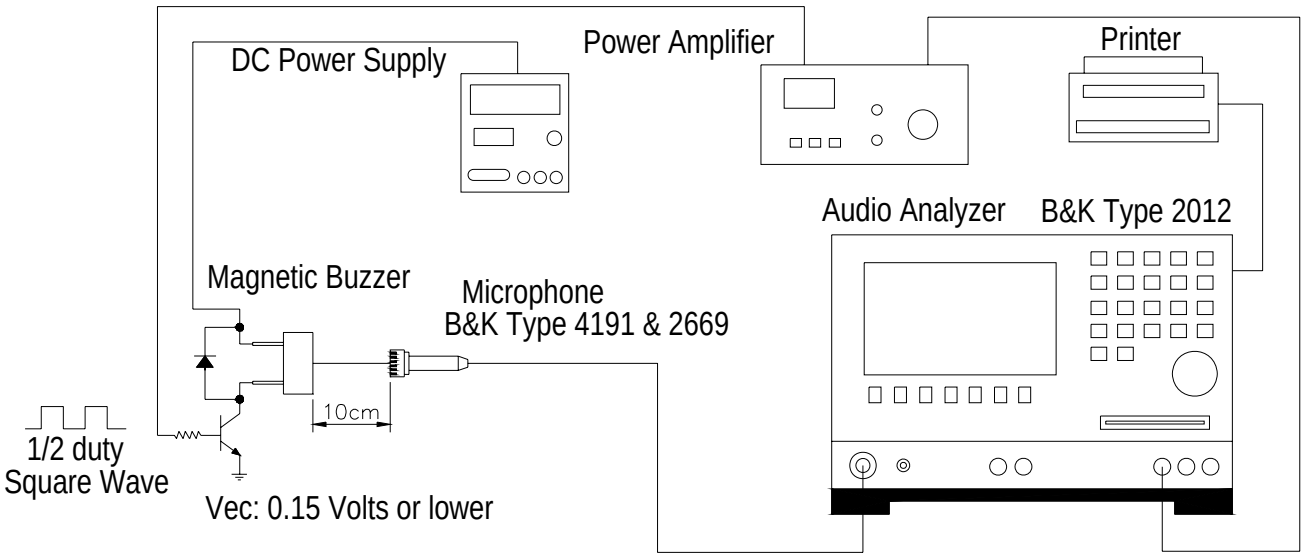
If the result is doubtful, should retested with the conditions below: Temp. 20±2℃,Humidity 60 ~ 70 %, Air pressure 860 ~ 1060 HPa.

※Note: As this product is not protected from foreign material entering, please make sure that any foreign materials(e.g. magnetic powder, washing solvend, flux, corrosive gas)do not enter this product in your production processes. The functional degradation(e.g. SPL down)may occur if foreign material enter it.

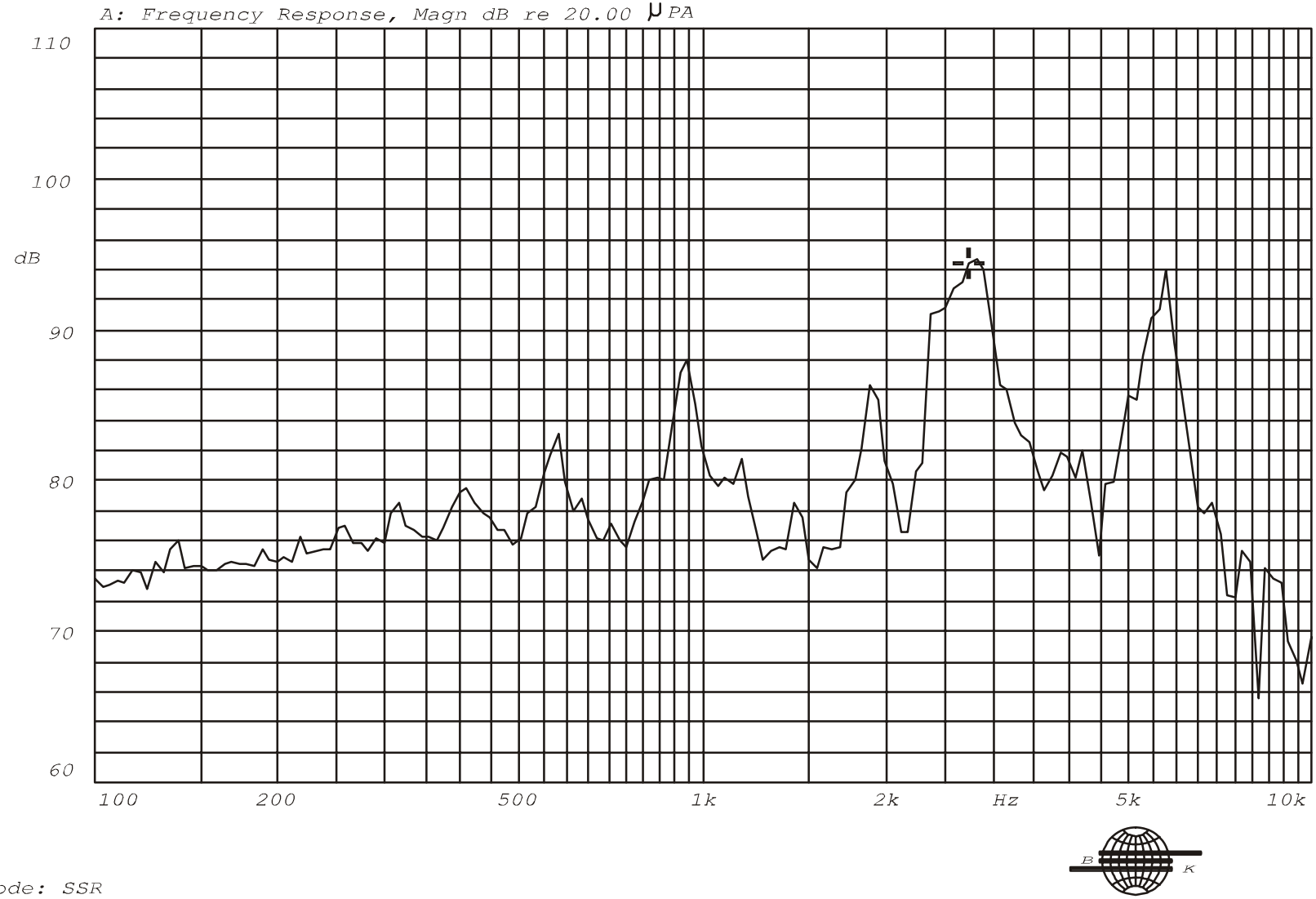
# STANDARD TEST FIXTURE




# Standard test condition of magnetic buzzer

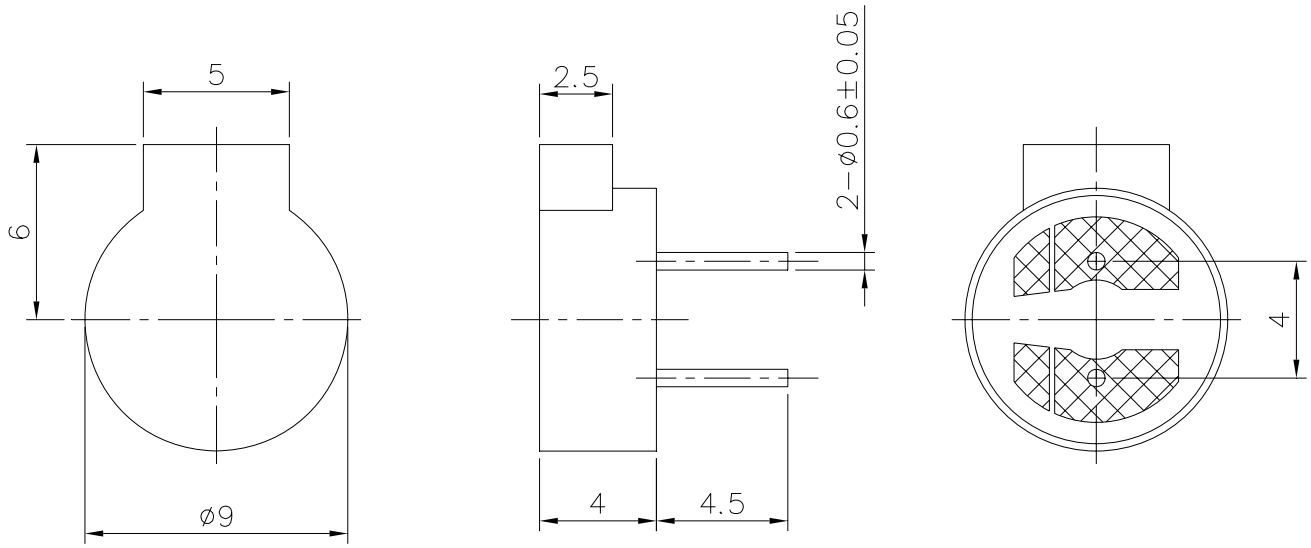


X:2.7384kHz  Y:94.42dB  ZA:Live Curve  SSR T. RMS




Mode: SSR

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

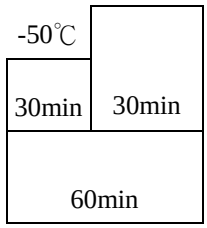
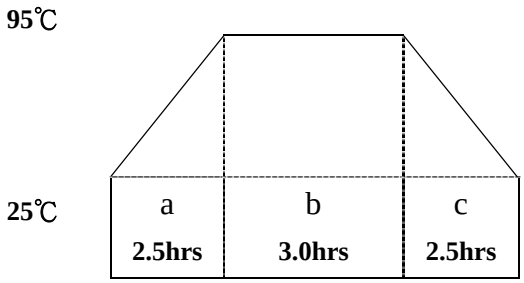



| | | | | |
|---|---|---|---|---|
| TITLE: SOUND TRANSDUCER | | DRAWN: Richard 01/25/2002 | SCALE: 4:1 | SHEET: 1 of 1 |
| | | DESIGNED: R&D DEP. | UNITS: mm | |
| PART NO. AC−905I−RPA | 1 | CHECKED: | TOLERANCE ± 0.5 | |
| | | APPROVAL: | UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± *** | |
| DWG NO. DTE−2020 | REV | MATERIAL: NORYL | | |

# A & B Components

# AC-905I-RPA

# RELIABILITY TEST

| Item | | Test conditions | Evaluation standard |
|---|---|---|---|
| 01 | **High temp. Storage life** | The part shall be capable of withstanding a storage Temperature of 95℃ for 96 hours. | After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L<br>S.P.L shall be 77dB or more. |
| 02 | **Low temp. Storage life** | The part shall be capable of withstanding a storage Temperature of -50℃ 95℃ for 96 hours. | |
| 03 | **Temp.cycle** | The part shall be subjected 10 cycles. One cycle shall consist of;<br>  <br> | |
| 04 | **Temp./Humidity cycle** | The part shall be subjected 10 cycles. One cycle shall be 8 hours and consist of;<br>  <br><br>**a,b:90~98%RH**<br>**c :80~98%RH** | |

# AC-905I-RPA

# RELIABILITY TEST

| Item | | Test conditions | Evaluation standard |
|---|---|---|---|
| **05** | **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<br>Of 6 hours. | After the test the part shall meet specifications without<br>Any degradation and performance except S.P.L<br>S.P.L shall be 77dB or more. |
| **06** | **Fixed drop** | The part shall be mounted on 100g jig(standard pc board) and dropped from a height of 152cm onto a concrete floor 5 times in each 6 planes.<br>(a total of 30 times) | |
| **07** | **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).<br>(a total of 9 times). | |
| **08** | **Operating life** | 1. Ordinary temperature<br>The part shall be subjected to 1000 hours at room temperature (25 ±10℃)with 5.0V 2731Hz applied.<br>2. High temperature<br>The part shall be subjected to 500 hours at 85℃ with 5.0V, 2731Hz applied.<br>3. Low temperature<br>The part shall be subjected to 500 hours at -40℃ with 5.0V, 2731Hz applied. | |