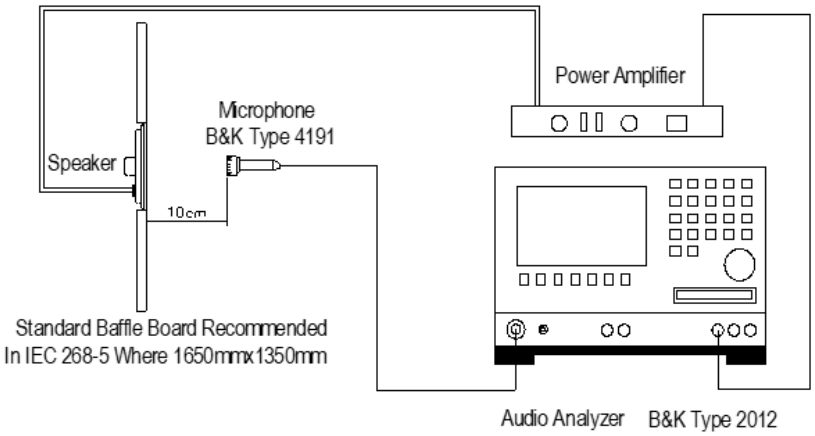
PUIaudio

| Data Sheet | AS02008MR-5-R |
|---|---|

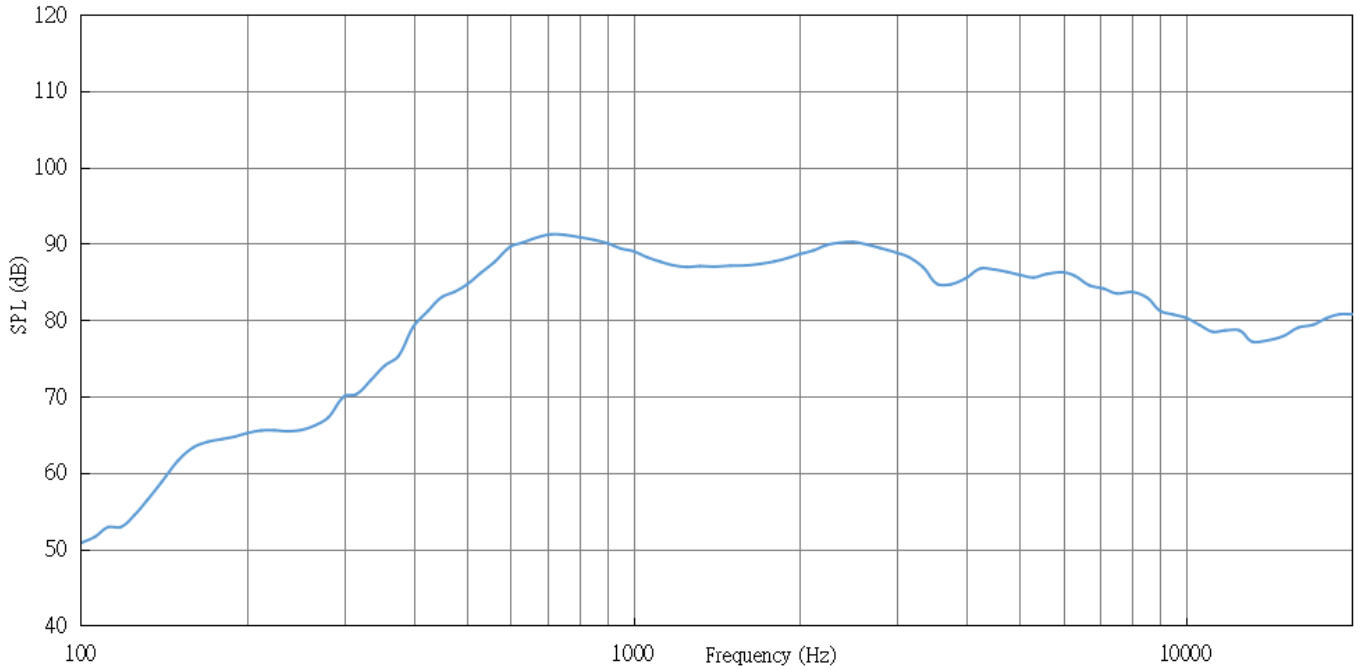
## Specifications

| Parameters | Values | Units |
|---|---|---|
| Rated Input Power | 0.5 | Watts |
| Max Input Power | 0.8 | Watts |
| Impedance | 8 ± 15% | Ohms |
| Output SPL @ 0.1W/0.1m (AVG. 0.8, 1.0, 1.2, 1.5 kHz) | 87 ± 3 | dB |
| Resonant Frequency | 630 ± 20% | Hz |
| Frequency Range | Fo – 10,000 | Hz |
| THD max. (1kHz, 0.5W) | 10% | - |
| Frame Material | Metal | - |
| Diaphragm Material | PET | |
| Magnet Material | NdFeB | - |
| Weight | 2.4 | Grams |
| Ingress Protection Rating | NA | - |
| Acceptable Soldering Methods | Hand Solder | 350C iron temp, solder time 3 seconds per terminal or less |
| Buzz, Rattle, etc. | Should not be audible at 2.0V sine wave between (Fo-10kHz) | - |
| Environmental Compliances | ROHS/REACH | - |
| Polarity | Diaphragm to move in forward direction when +pos applied to pos+ terminal | - |
| Storage Temperature | -30 to 60 | °C |
| Operating Temperature | -25 to 55 | °C |

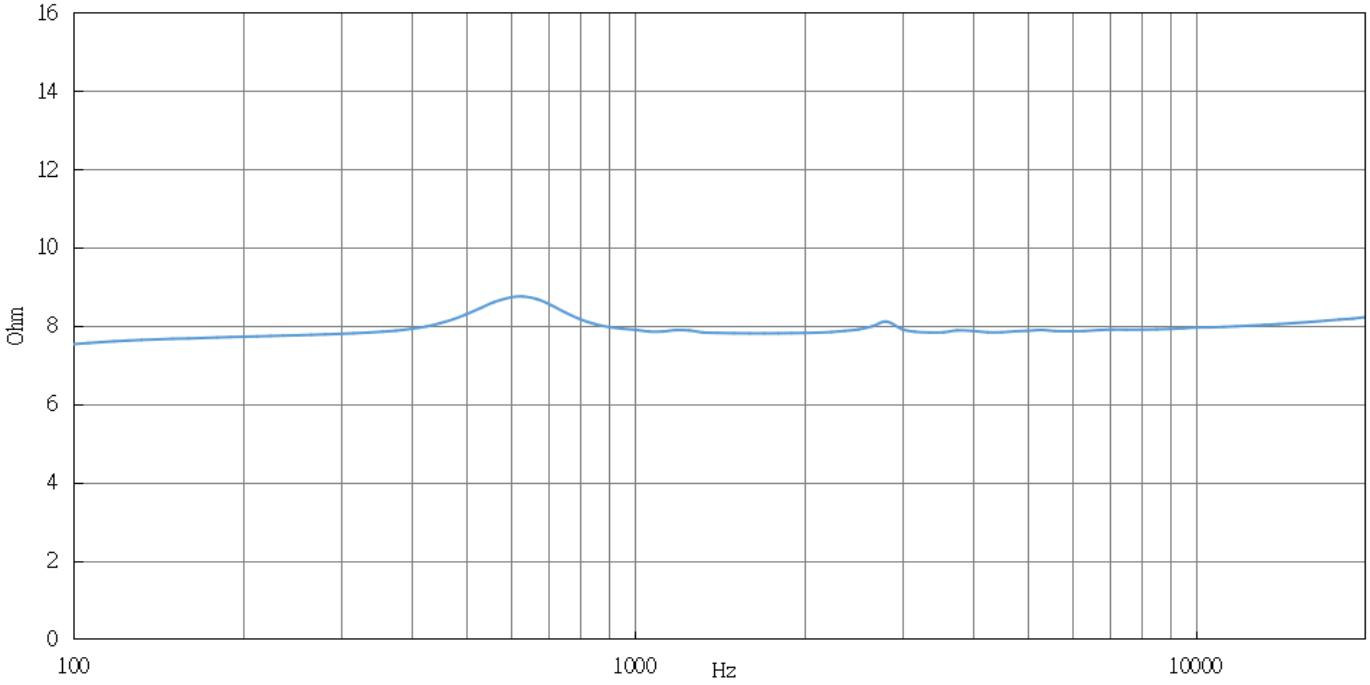
## Measurement Method



## Typical Frequency Response (0.1W, 0.1m)




## Impedance Curve (0.1W, 0.1m)

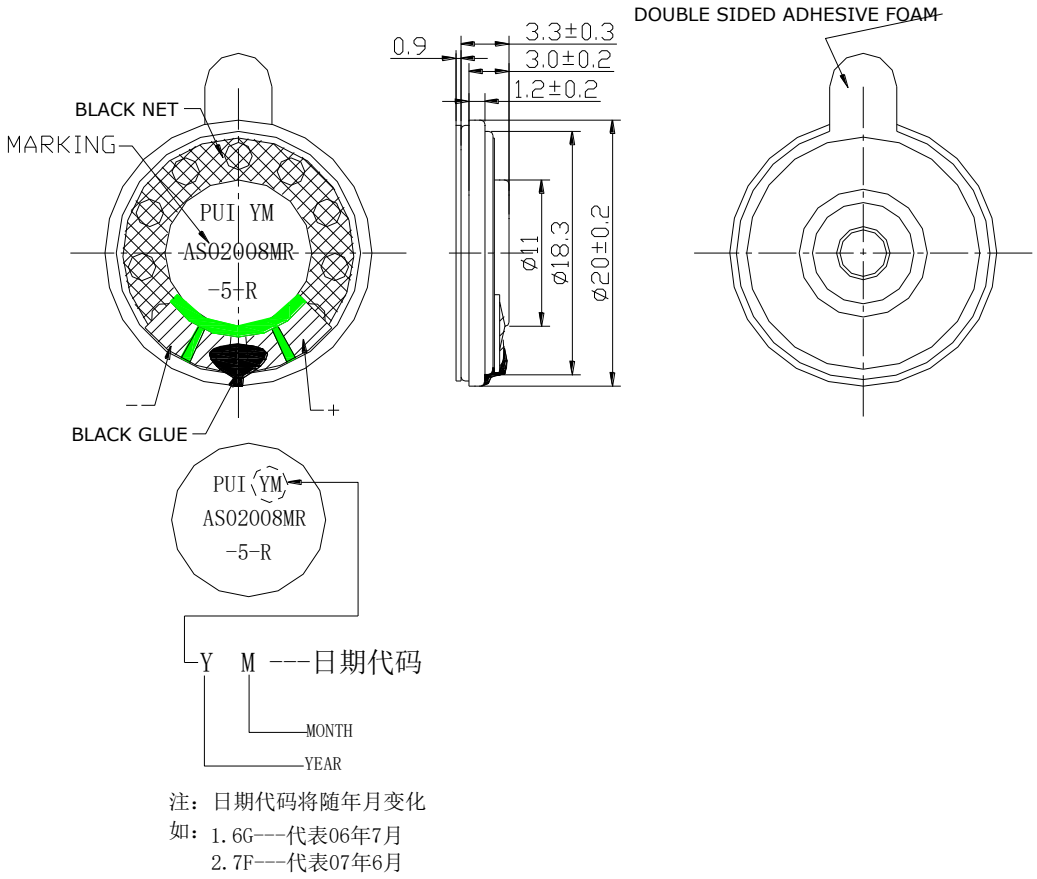


## Reliability Testing

| Type of Test | Test Specifications |
|---|---|
| High Temperature Test | Keep 96 hours at +60℃±3℃ and leave 3 hours in normal temperature and then check |
| Low Temperature Test | Keep 96 hours at -30℃±3℃ and leave 3 hours in normal temperature and then check |
| Humidity Test | Keep 96 hours at + 40℃±3℃ relative humidity 95% and leave 3 hours in normal temperature and then checked. |
| Temperature Cycle Testing | Low temperature: -30℃±3℃, temperature:+60℃±3℃, cycle: 1 hour/cycle each, and then keep 5 cycles in a room. |
| Vibration Test | 10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours. |
| Drop Test | Free drop one piece from 100cm height to 20mm thick wooden board. X,Y,Z each direction, 6 times. |
| Load Test | Rated Power white noise is applied for 96 hours |
| Terminal Strength Test | Capable of withstand 1kg load for 15seconds without resulting in any damage or rejection. |
| Max Power Test | Max power 1 min on – 2 min off 10 cycles. |

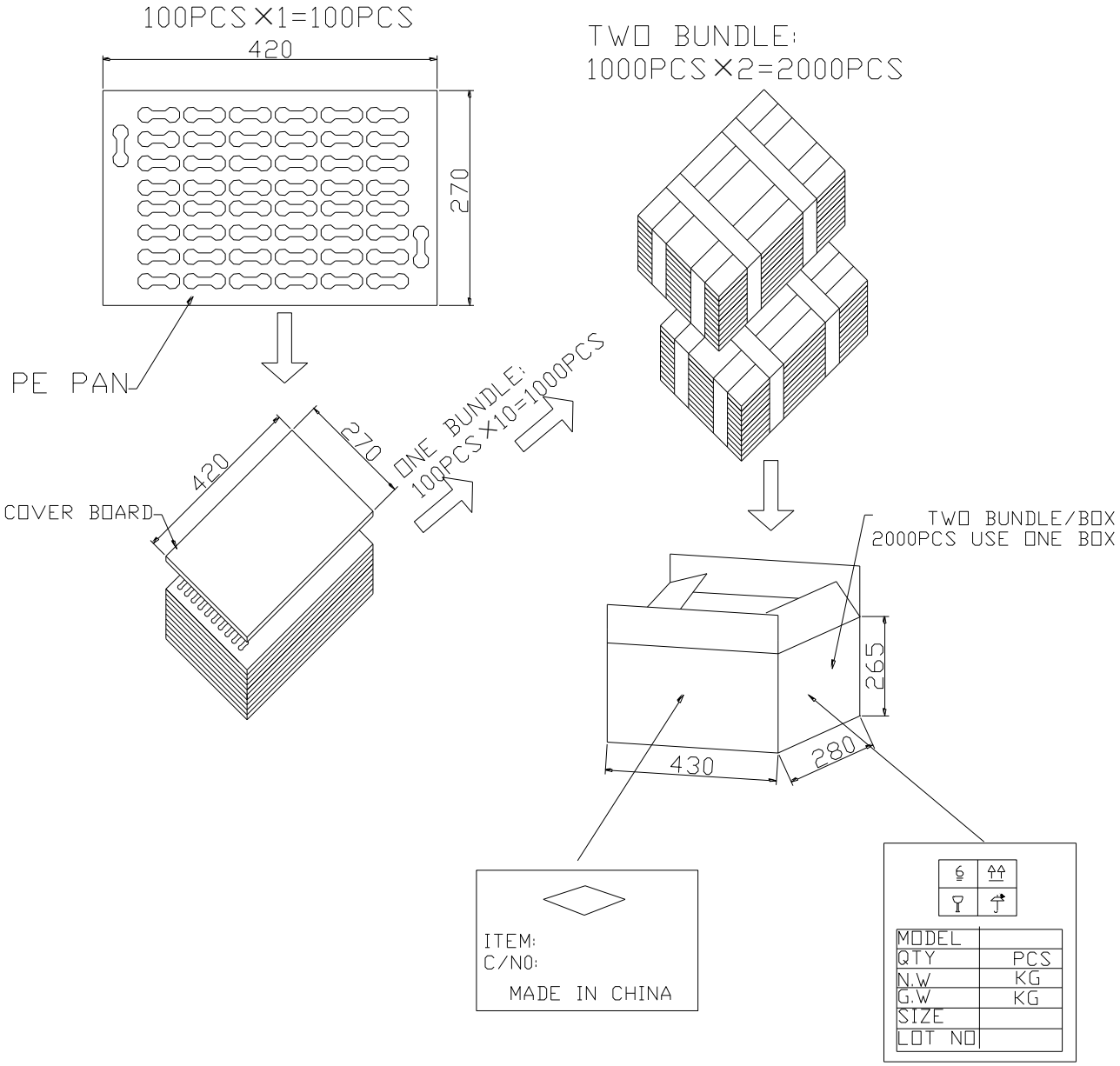
**After tests, part shall be within ±3dB.**

## Dimensions




注：日期代码将随年月变化
如：1. 6G---代表06年7月
2. 7F---代表07年6月

# Packaging




**Specifications Revisions**

| Revision | Description | Date |
|---|---|---|
| - | Released from Engineering | 4/28/2009 |
| A | Revised Terminal Layout | 9/24/2010 |
| B | Revised to 3D Template | 7/18/2013 |
| C | Revised Resonant Frequency/Range, SPL, Dimensions | 1/24/2022 |

Note:

1. Unless otherwise specified:
   A. All dimensions are in millimeters.
   B. Default tolerances are ±0.5mm and angles are ±3°.
2. Specifications subject to change or withdrawal without notice.