



PUI audio

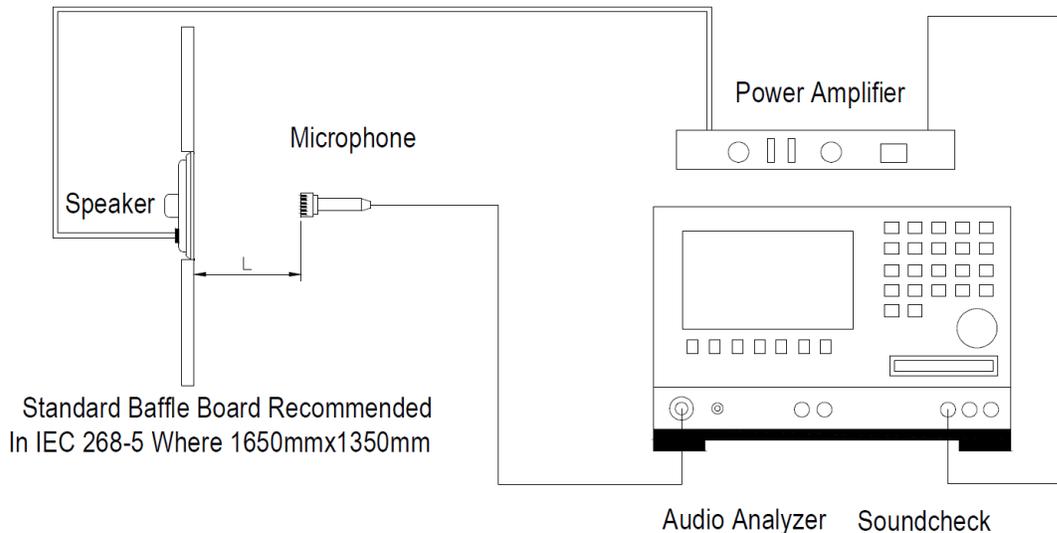


Data Sheet AS04008MR-21-R

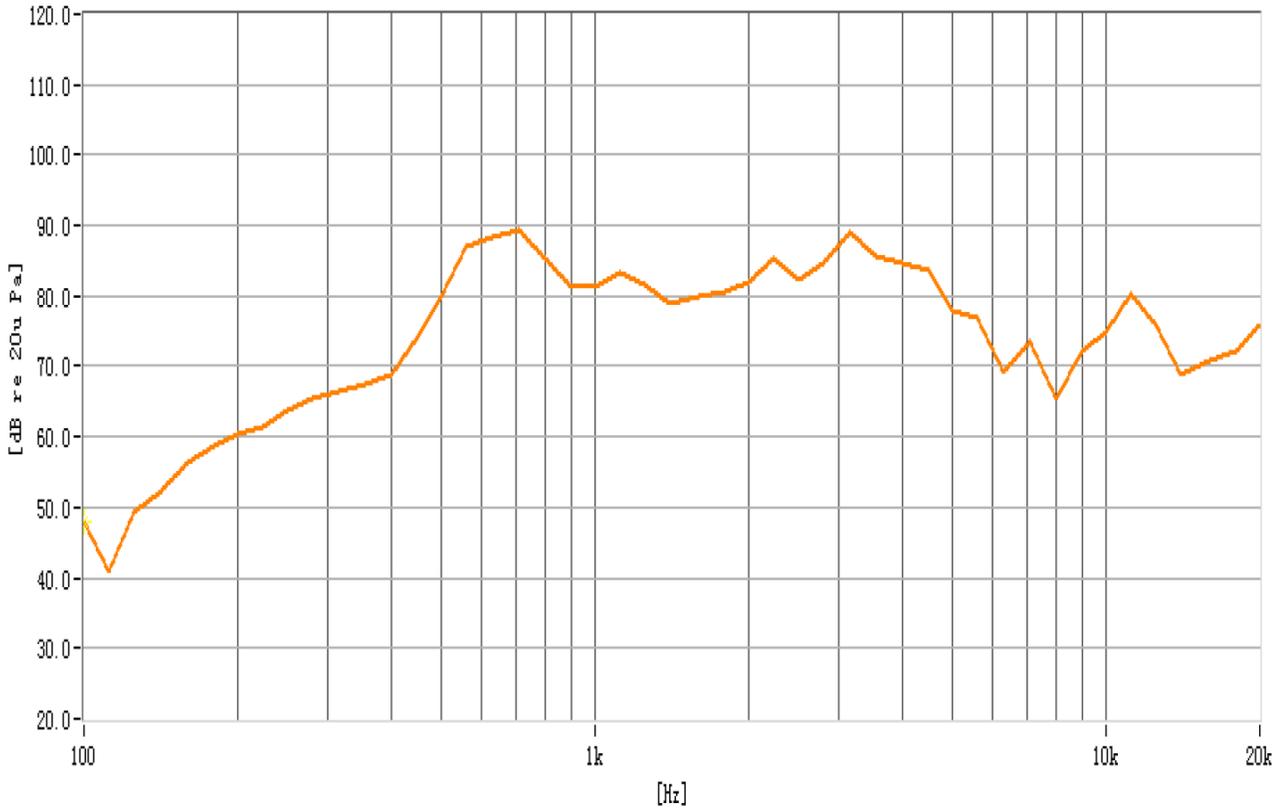
Specifications

| Parameters | Values | Units |
|--|--|-------|
| Rated Input Power | 1.0 | Watts |
| Max Input Power | 1.5 | Watts |
| Impedance | 8 ± 15% | Ohms |
| Output SPL (at 0.7kHz @ 1W/1m average) | 89.0 ± 3 | dB |
| Resonant Frequency (f_0) | 630 ± 20% | Hz |
| Frequency Range | $f_0 \sim 6,000$ | Hz |
| THD (1kHz, 1.0W Drive) | ≤10 | % |
| Diaphragm Material | PET | - |
| Frame Material | SPCC/Zink Plating | - |
| Magnet Material | NdFeB | - |
| Weight | 9.6 | Grams |
| Buzz, Rattle, etc. | Must not be audible with $f_0 - 20\text{kHz}$, 2.83V _{RMS} sine wave | - |
| Environmental Compliances | ROHS/REACH | - |
| Polarity | Cone moves forward with positive dc current applied to "+" terminal | - |
| Storage Temperature | -30 ~ +70 | °C |
| Operating Temperature | -20 ~ +60 | °C |

Measurement Method (Measured with 1.0W, L = 1m, Temperature: 25 ~ 35°C, Relative Humidity: 25%~75%.)



Typical Frequency Response (Measured with 1W drive, distance = 1m)

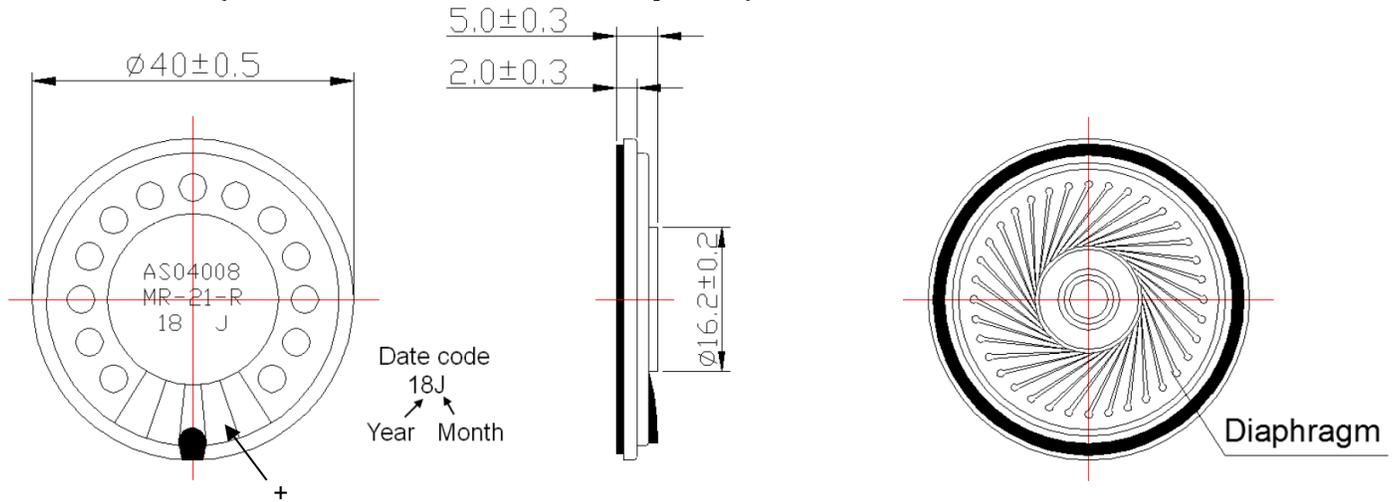


Reliability Testing

| Type of Test | Test Specifications |
|---------------------------|---|
| High Temperature Test | 96 hours at 70±3°C |
| Low Temperature Test | 96 hours at -30±3°C |
| Humidity Test | 96 hours at 40±3°C with relative humidity at 92~95% |
| Temperature Cycle Testing | Run for 5 cycles with each cycle consisting of: |
| Vibration Test | Frequency: 10~55~10Hz Oct/min Amplitude: 1.5mm Duration: 2 hours each of 3 perpendicular directions |
| Drop Test | Drop the speaker contained in normal box onto the surface of 40mm thick board 10 times from the height of 75cm. |
| Load Test | Must perform normal with program White-Noise source at Rated Power for 96 Hours |

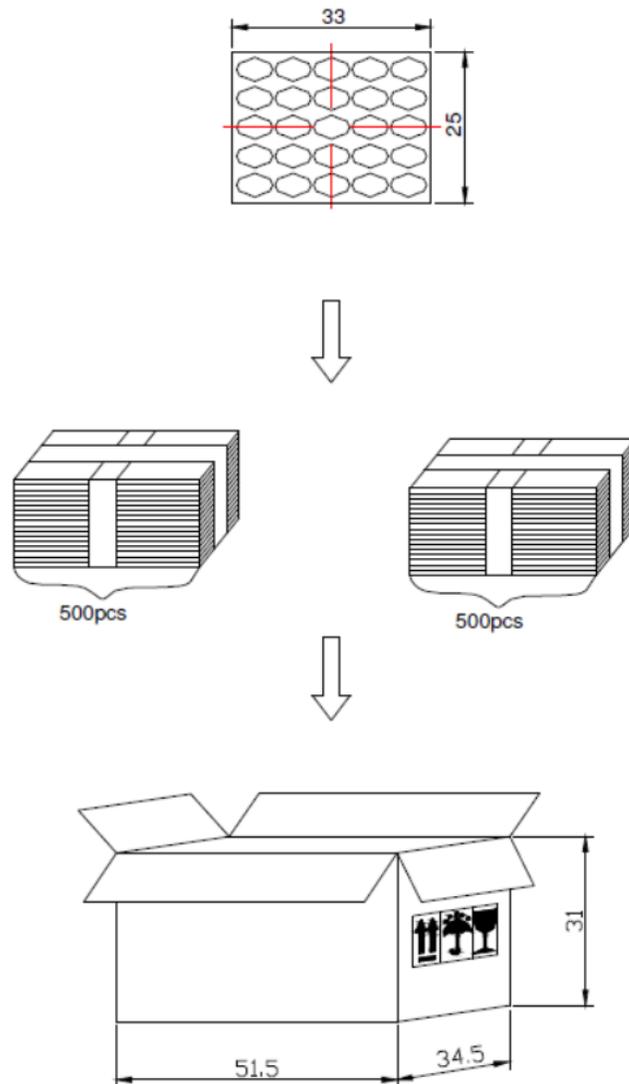
After each test let rest for 6 hours in standard room temperature, the part shall be within ±3dB.

Dimensions (Tolerance: $\pm 0.3\text{mm}$, unless otherwise specified.)



Packaging

- 25pcs per tray, 1000pcs MTR carton



Specifications Revisions

| Revision | Description | Date |
|-----------------|-----------------------------------|-------------|
| - | Released from Engineering | 06/06/2017 |
| A | Added Frame Material and Polarity | 08/23/2018 |
| B | Added Note 4 regarding Terminals | 08/27/2018 |

Note:

1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are $\pm 0.5\text{mm}$ and angles are $\pm 3^\circ$.
2. Specifications subject to change or withdrawal without notice.
3. This part is ROHS compliant.
4. Solder Terminals are Tin plated Cu with lead-free solder (SnCu) pre-applied.