



PUI audio

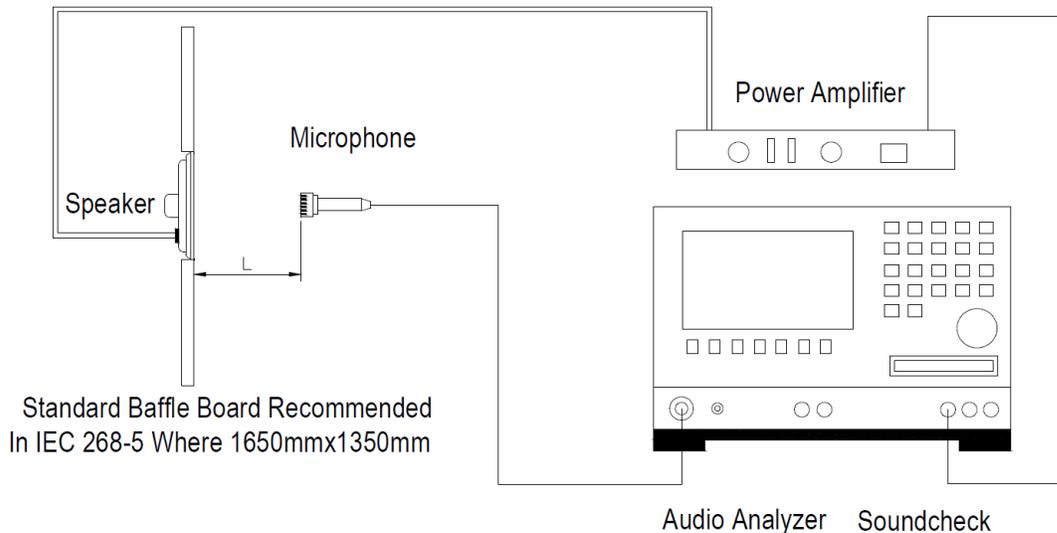


Data Sheet AS04008MR-21-R

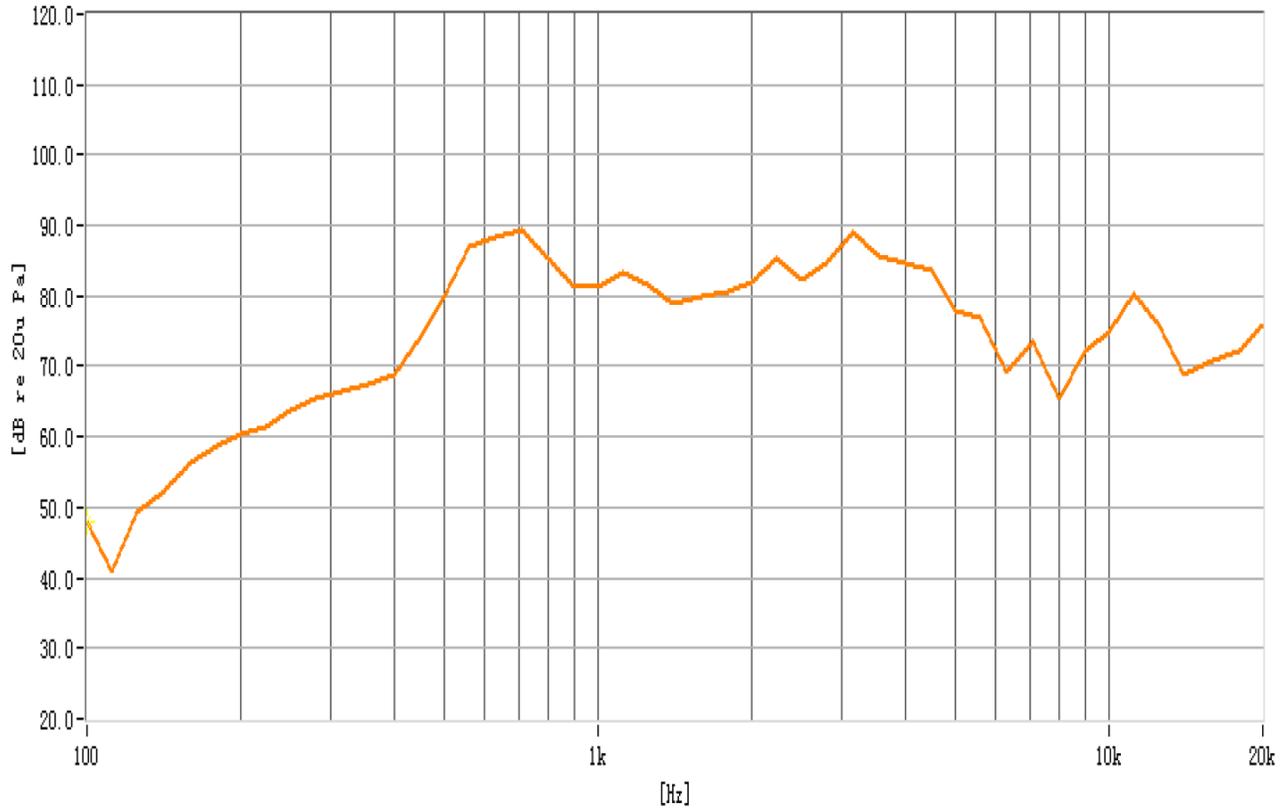
Specifications

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	-40 ~ +80	°C
Operating Temperature	-30 ~ +70	°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)

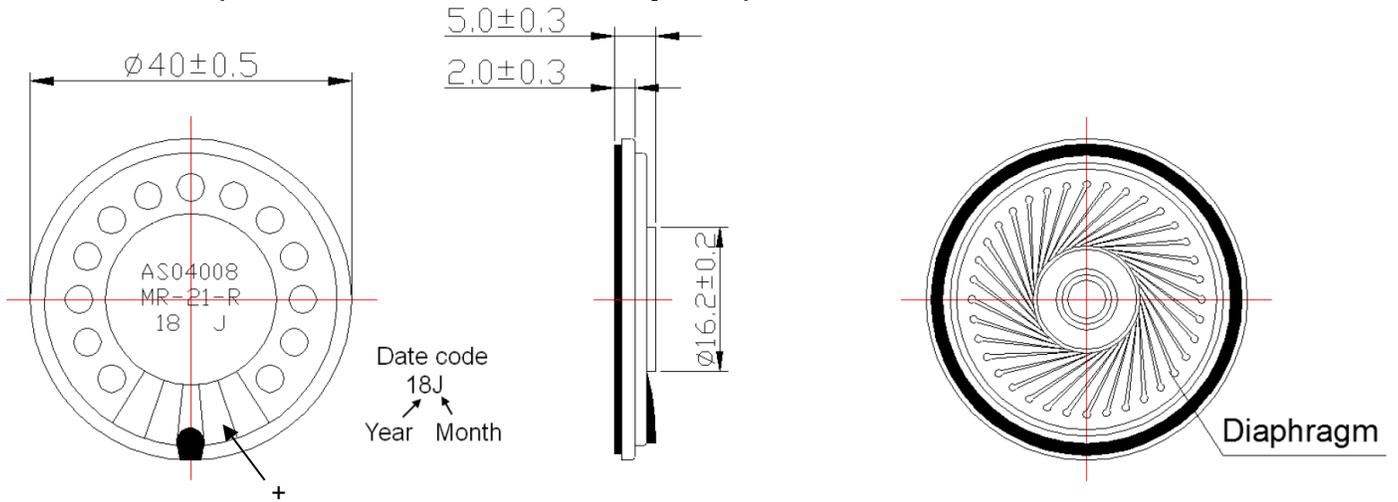


Reliability Testing

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

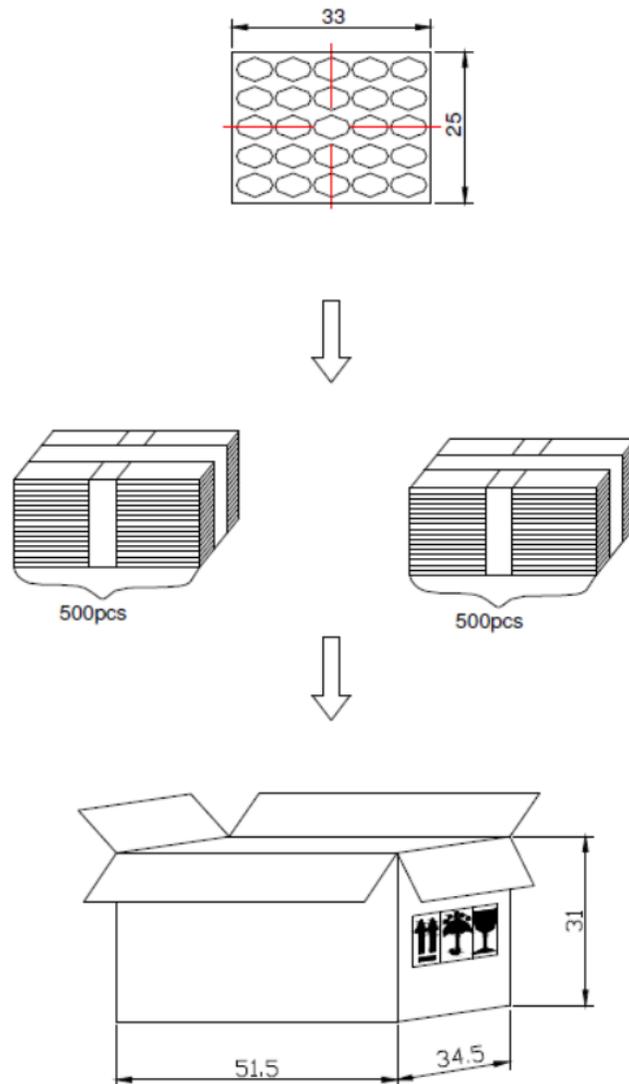
After each test let rest for 6 hours in standard room temperature, the part shall be within ±3dB.

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



Packaging

- 25pcs per tray, 1000pcs MTR carton



Specifications Revisions

Revision	Description	Date	Approved
-	Released from Engineering	06/06/2017	-
A	Added Frame Material and Polarity	08/23/2018	-
B	Added Note 4 regarding Terminals	08/27/2018	-
C	Revised Operating and Storage Temperature Ranges	04/04/2025	ML

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.