



PUI audio



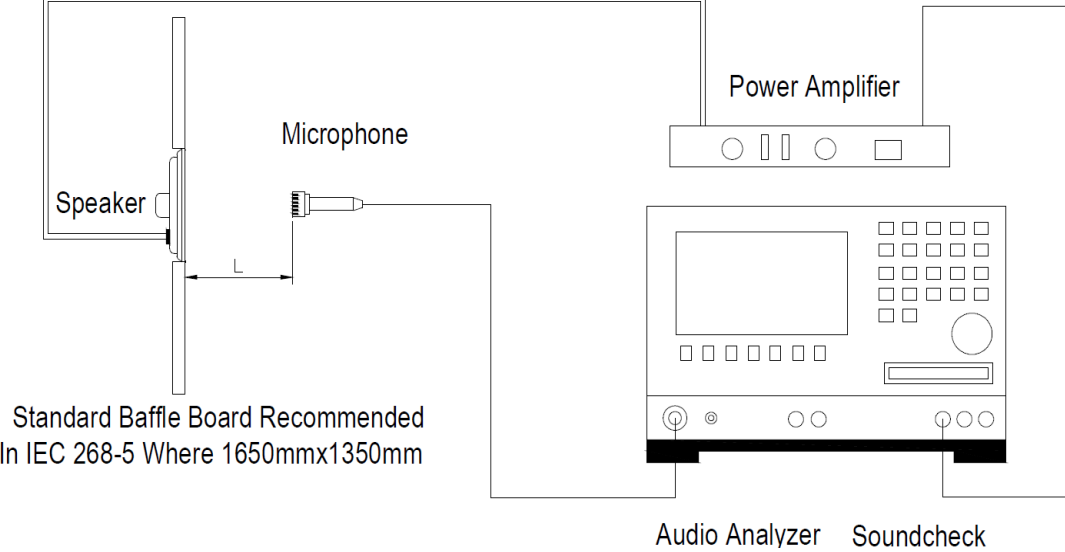
Data Sheet

AS04008MR-22-WP

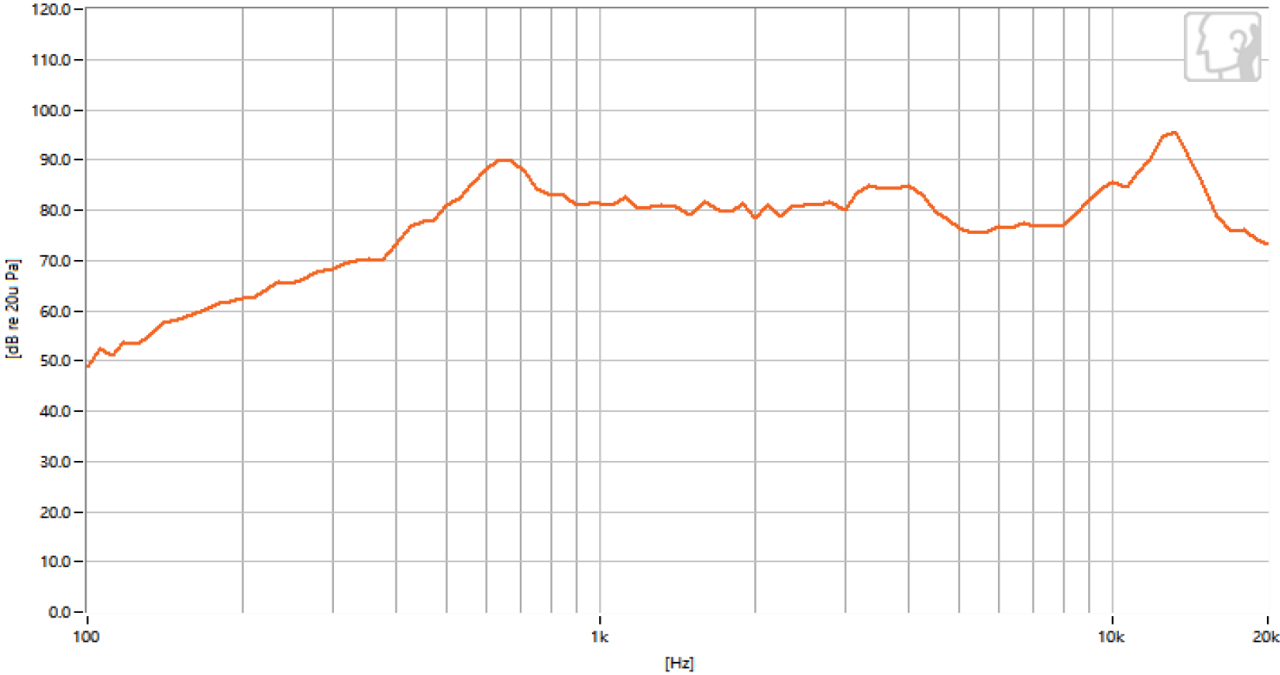
Specifications

Parameters	Values	Units
Rated Input Power	0.5	Watts
Max Input Power	1.0	Watts
Impedance	$8 \pm 15\%$	Ohms
Output (SPL) $P_{DRIVE} = 1.0W$ Distance = 1.0m $f = \text{ave. } 0.8kHz, 1.0kHz, 1.2kHz, 1.5kHz, \text{ and } 2.0kHz$	82.0 ± 3.0	dB
Resonant Frequency (f_0)	$520 \pm 20\%$	Hz
Frequency Range SPL – 10dB	$f_0 \leq f \leq 20,000$	Hz
THD $f = 1kHz$ $P_{DRIVE} = 1.0W$	≤ 5.0	%
Buzz, Rattle, etc.	Not audible with $V_{DRIVE} = 2.0V_{RMS}$, $300Hz \leq f \leq 5000Hz$ sine wave	-
Polarity	Cone moves forward with positive dc current applied to “+” terminal	-
Diaphragm Material	PET	-
Frame Material	SPCC	-
Magnet Material	NdFeB	-
Ingress Protection	IP67	-
Weight	15	gr
Operating Temperature	$-25 \leq T_0 \leq 70$	°C
Storage Temperature	$-25 \leq T_s \leq 70$	°C
Environmental Compliances	ROHS/REACH	-

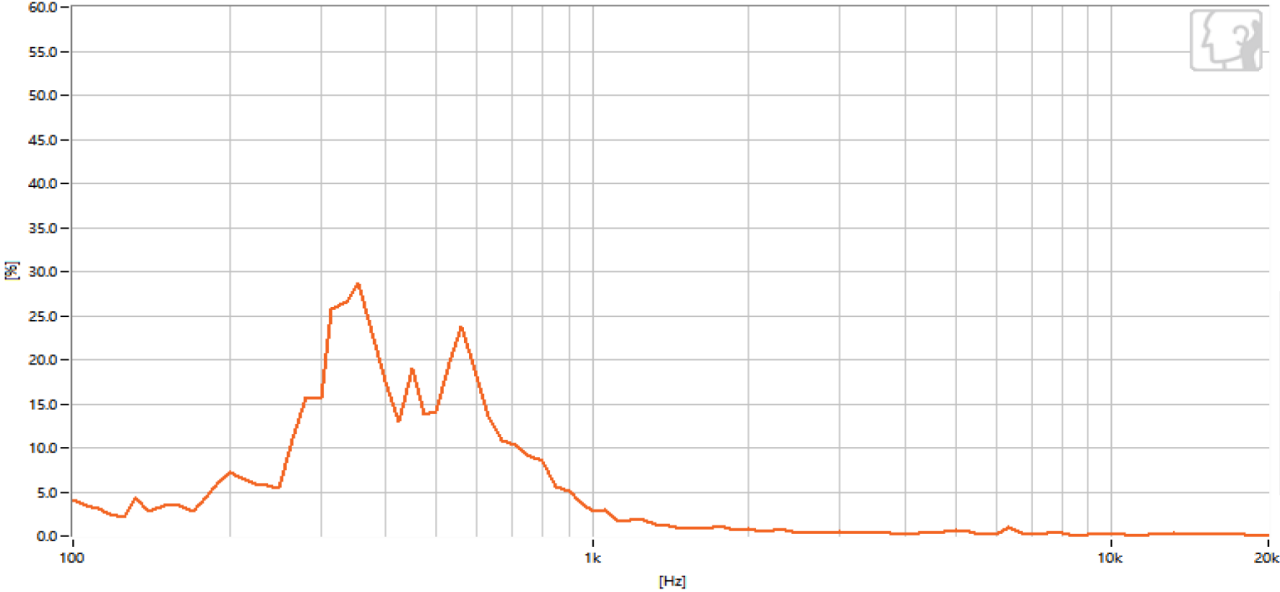
Measurement Method ($P_{DRIVE} = 0.5W$, distance = 1m, $T = 25^{\circ}C \leq T_A \leq 35^{\circ}C$, $RH = 25\% \leq RH \leq 75\%$.)



Typical Frequency Response ($P_{DRIVE} = 0.5W$, distance = 1m)



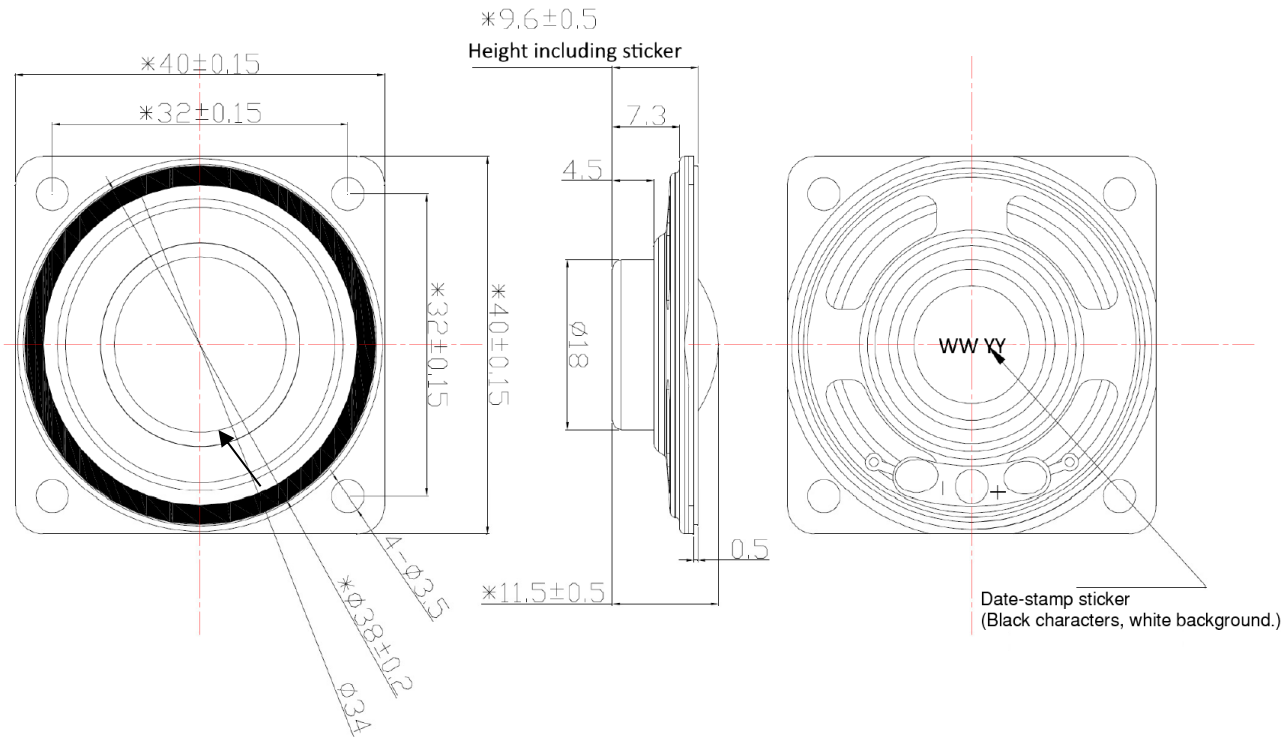
Typical THD vs. Frequency (P_{DRIVE} = 0.5W)



Reliability Testing (Rest time and temperature after each test is six hours and 25°C. The device SPL shall be within ±3dB.)

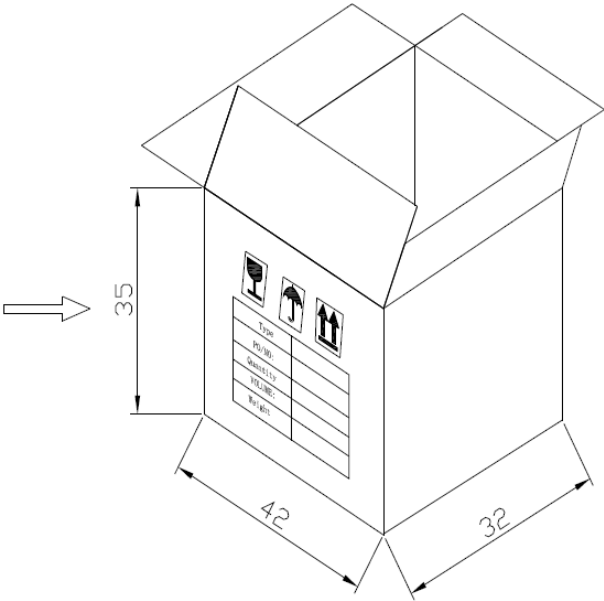
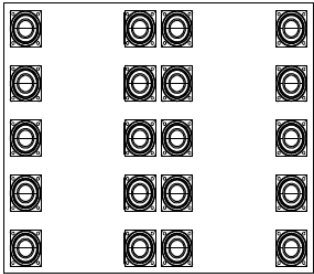
Type of Test	Test Specifications
High Temperature Test	96 hours at 70±3°C
Low Temperature Test	96 hours at -30±3°C
Humidity Test	96 hours at 40±3°C with relative humidity at 92~95%
Temperature Cycle Testing	Run for 5 cycles with each cycle consisting of: 90 ~ 95 % RH 65°C 25°C 0.5hr 6hrs 0.5hr 5hrs
Vibration 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

Dimensions (Tolerance: ±0.3mm, unless otherwise specified.)



Packaging

- Notes
- 20 pieces per tray
 - 16 trays per container
 - 320 pieces per container
 - Tray dimensions 39.8cm x 29.89cm x 2.0cm
 - Container dimensions 42cm x 32cm x 35cm



Specifications Revisions

Revision	Description	Date	Approved
A	Datasheet released from Engineering	06/25/2025	KH

- Note:
- Unless otherwise specified:
 - All dimensions are in millimeters.
 - Default tolerances are ± 0.5 mm and angles are $\pm 3^\circ$.
 - Specifications subject to change or withdrawal without notice.