



PUIaudio



Data Sheet

AS04504PR-WP

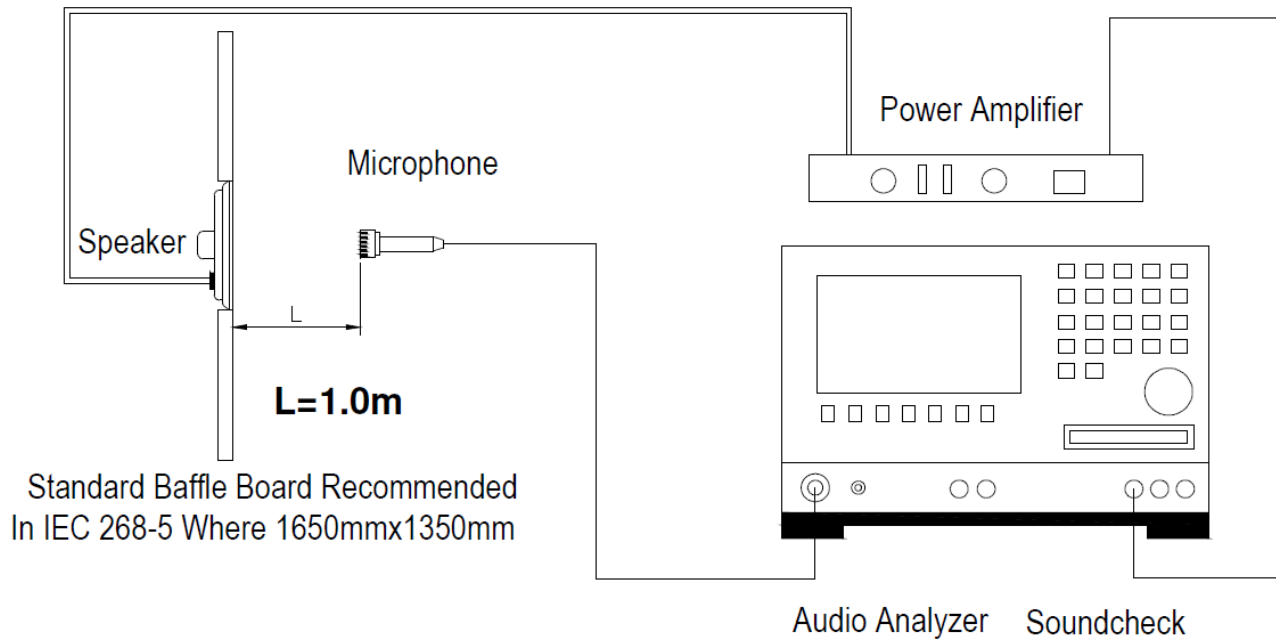
Features:

- IP 65 Rated
- Wide Frequency Response

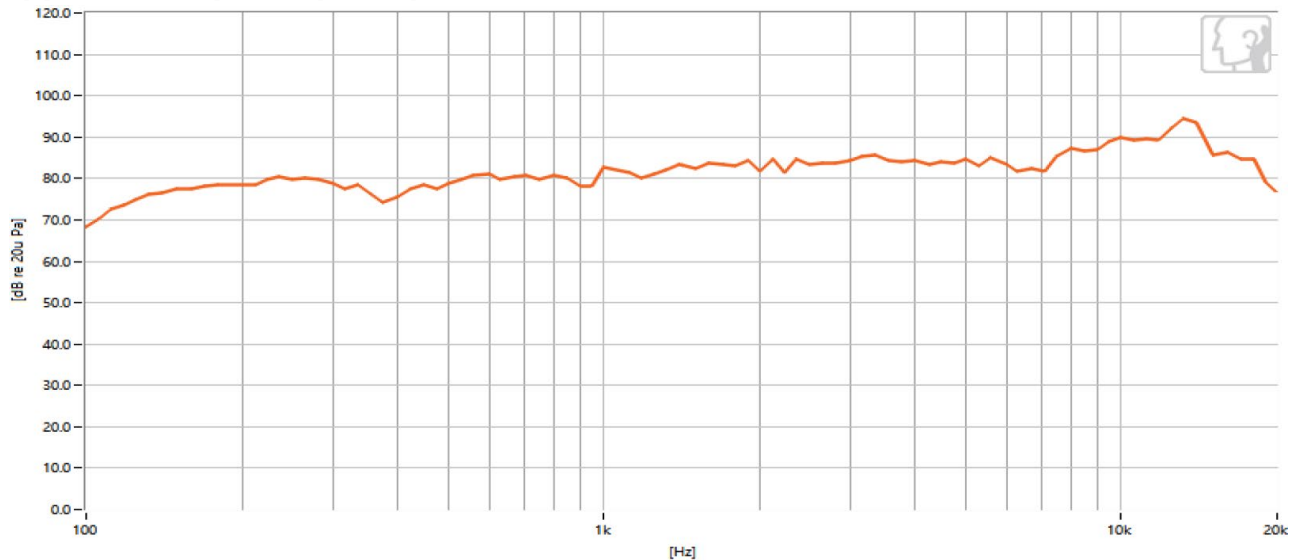
Specifications

Parameters	Values	Units
Rated Input Power	5.0	Watts
Max Input Power	6.0	Watts
Impedance	4 ± 15%	Ohms
Output SPL (@ 0.8k, 1.0k, 1.2k, 1.5k Hz in 1.0W/0.1m average)	101 ± 3	dB (0dB SPL = 20uPa)
Resonant Frequency (f ₀) (@ 1.0 V)	180 ± 20%	Hz
Frequency Range	f ₀ ~ 20,000	Hz
THD (@ 1kHz, 1.0W)	<5%	
Frame Material	PBT	-
Magnet Material	NdFeB	-
Diaphragm Material	Rubber + Paper	-
Weight		Grams
Ingress Protection Rating	IP65	-
Buzz, Rattle, etc.	Must be normal at sine wave between 120 ~ 5K Hz	V _{DRIVE} = 4.47V _{RMS}
Environmental Compliances	ROHS/REACH	-
Polarity	Cone will move forward with positive dc current to "+" terminal	-
Storage Temperature (T _s)	-30 ~ +70	°C
Operating Temperature (T _o)	-30 ~ +70	°C

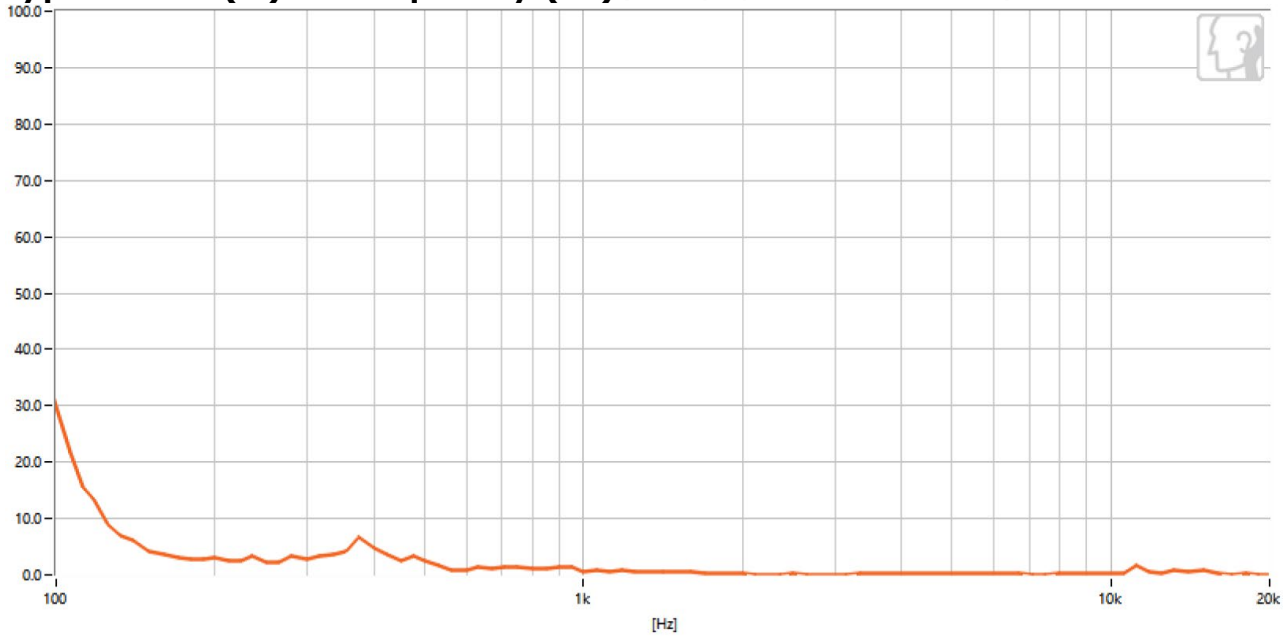
Measurement Method



Typical Frequency Response (1.0W input power, measured at 1.0M)



Typical THD (%) vs Frequency (Hz) (1.0W input power, measured at 1.0M)

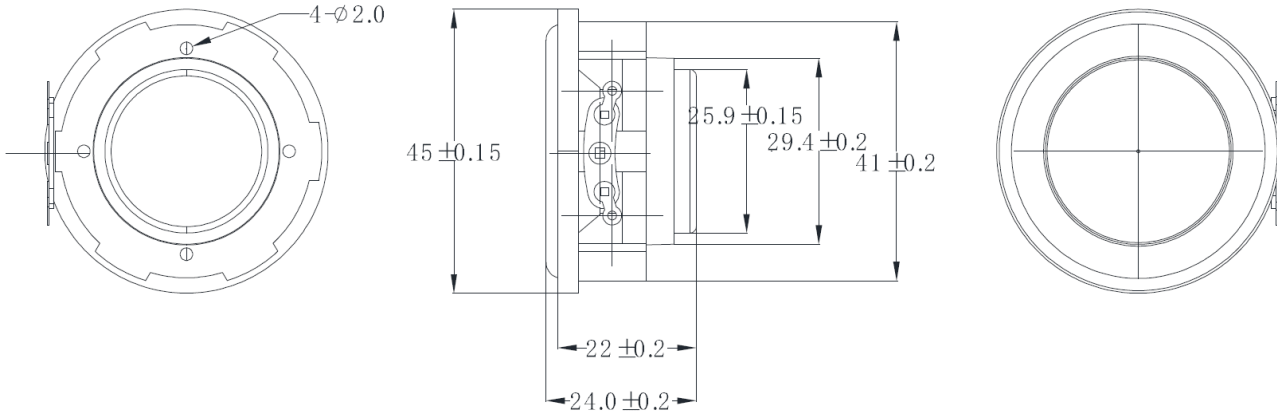


Reliability Testing

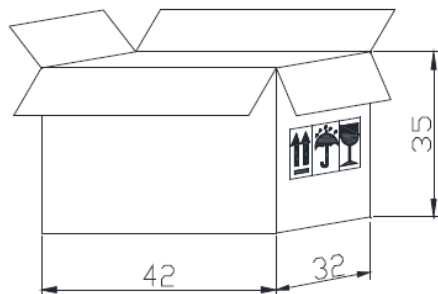
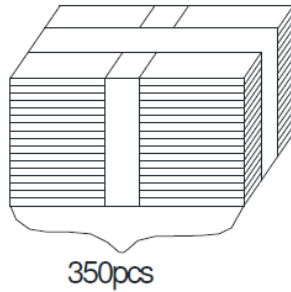
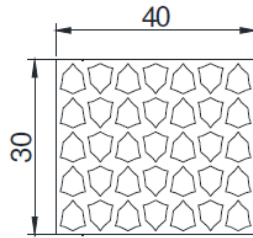
Type of Test	Test Specifications
High Temperature Test	96 hours at $85 \pm 3^{\circ}\text{C}$
Low Temperature Test	96 hours at $-40 \pm 3^{\circ}\text{C}$
Humidity Test	96 hours at $30 \pm 3^{\circ}\text{C}$ with relative humidity at 92~95%
Temperature Cycle Testing	<p>The cycle should be run 5 times, with each cycle consisting of:</p>
Vibration Test	<p>Frequency: 10~55~10Hz Oct/min, Amplitude: 1.5mm Duration: 2 hours each of 3 perpendicular directions</p>
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, parts should conform to original performance within ± 3 dB tested with Rated Power, after 6 hours of recovery period.

Dimensions (Units: mm. Tolerance: $\pm 0.5\text{mm}$)



Packaging



Specifications Revisions

Revision	Description	Date
A	Released from Engineering	07/26/2023

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. Base Speaker: AS04504PR-F-WP-R for reference