



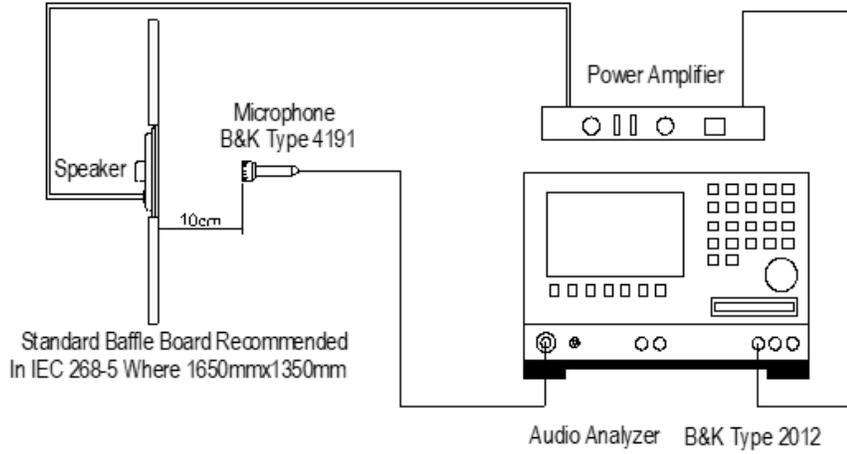
# PUIaudio

Data Sheet	AS01525MR-R
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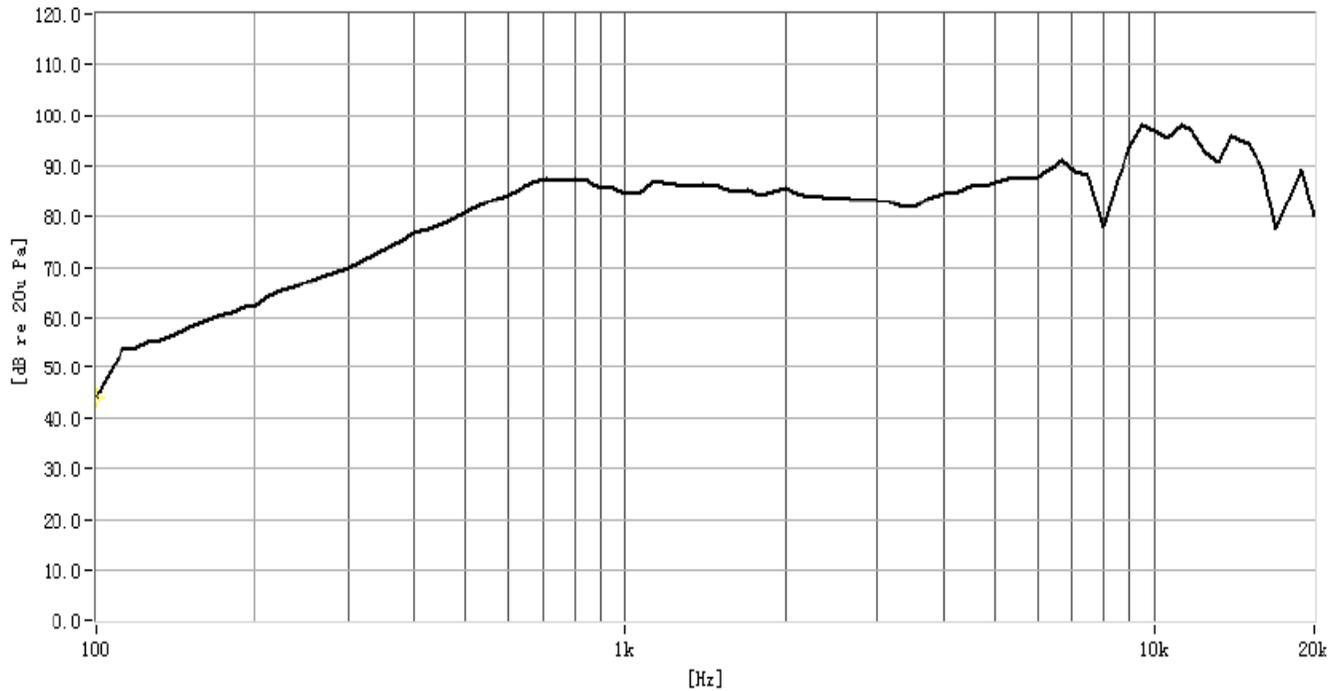
## Specifications

Parameters	Values	Units
Rated Input Power	0.3	Watts
Max Input Power	0.5	Watts
Impedance	25 ± 15%	Ohms
Output SPL ( <i>AVG 0.8, 1.0, 1.5, 2.0 kHz; 0.1W/10cm</i> )	86 ±3	dB
Resonant Frequency	650 ± 20%	Hz
Frequency Range	Fo ~ 20,000	Hz
Distortion (2kHz, 0.3W)	<5%	-
Frame Material	PBT	-
Magnet Material	NdFeB	-
Diaphragm Material	Mylar (PEI)	-
Ingress Protection	-	-
Weight	1.3	g
Buzz, Rattle, etc.	Must be free audible noise (buzzes and rattles) (sine wave Fo-20kHz), input level up to 2.74Vrms	-
Environmental Compliances	ROHS/REACH	-
Polarity	When a positive DC Current is applied to the voice coil terminal marked +or red ,the diaphragm shall move forward	-
Storage Temperature	-40 ~ 85	°C
Operating Temperature	-30 ~ 70	°C

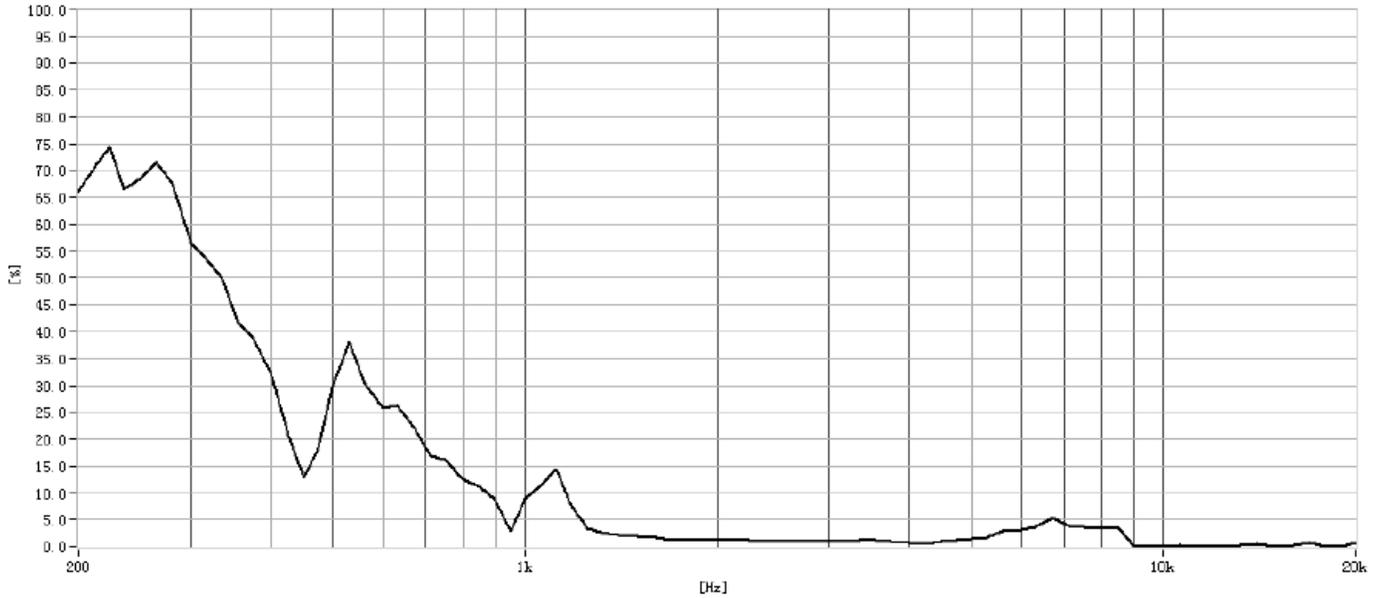
## Measurement Method



## Typical Frequency Response (1.58V<sub>rms</sub>, 10cm)



## Typical Impedance Response (2.74Vrms; 10cm)

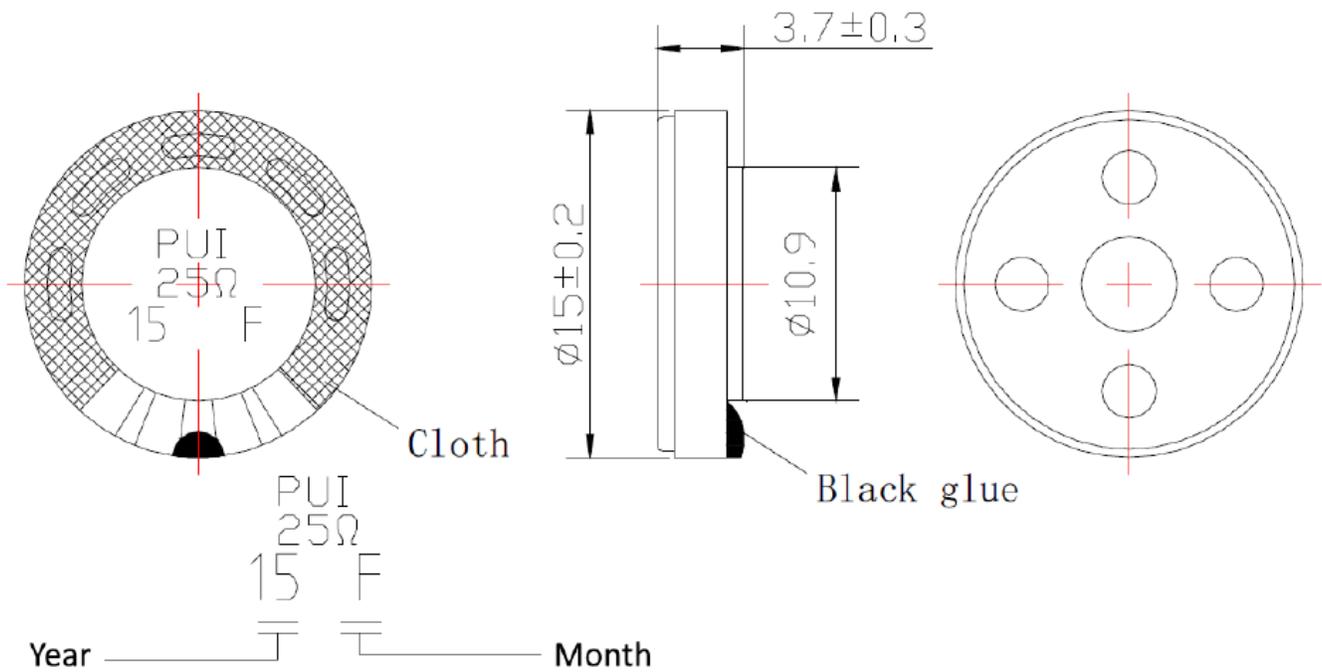


## Reliability Testing

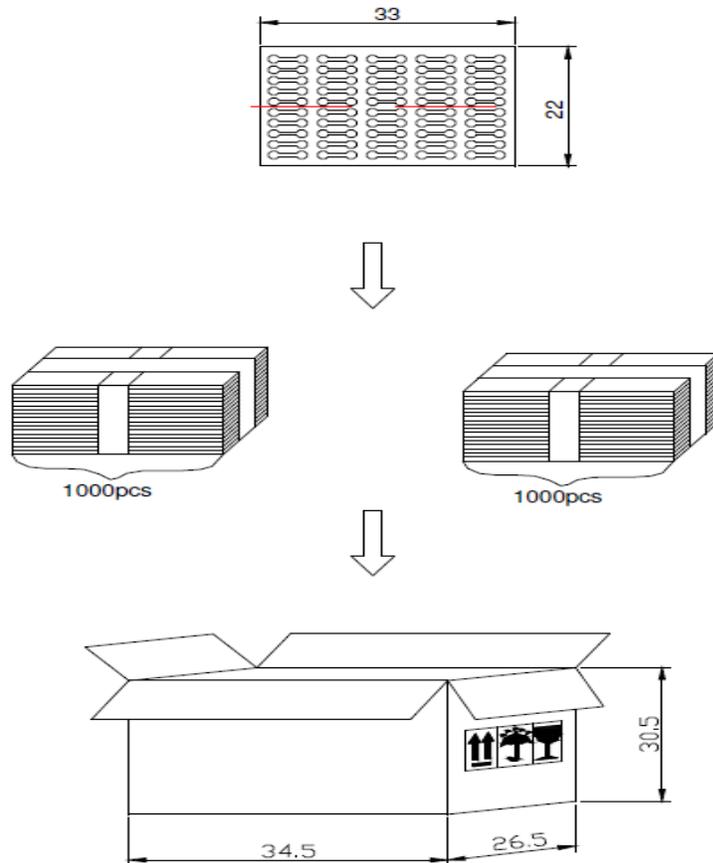
Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C
Low Temperature Test	96 hours at -40°C
Humidity Test	96 hours at 30°C with relative humidity at 92~95%
Temperature Cycle Testing	Run for 5 cycles with each cycle consisting of: 
Vibration Test	Frequency: 10~55~10Hz Oct/min Amplitude: 1.5mm Duration: 2 hours in each of 3 axis
Drop Test	Drop speaker contained in normal box onto surface of 40mm thick board 10 times from 75cm height.
Load Test	Input power: Rated Power, White Noise for 96 hours .

**After each test, let rest for 6 hours; then the change of SPL shall be within ±3 dB.**

## Dimensions



## Packaging - 100pcs/Tray, 2000pcs Master Carton



**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>	<b>Approved</b>
A	Released from Engineering	01/28/2015	
B	Revised Resonant Frequency, update drawing, and new spec format	04/11/2024	M.L.

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.