



PUIaudio



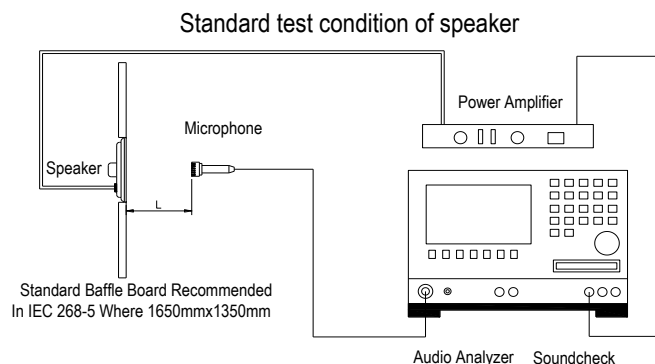
Data Sheet

AS05008PR-A-R

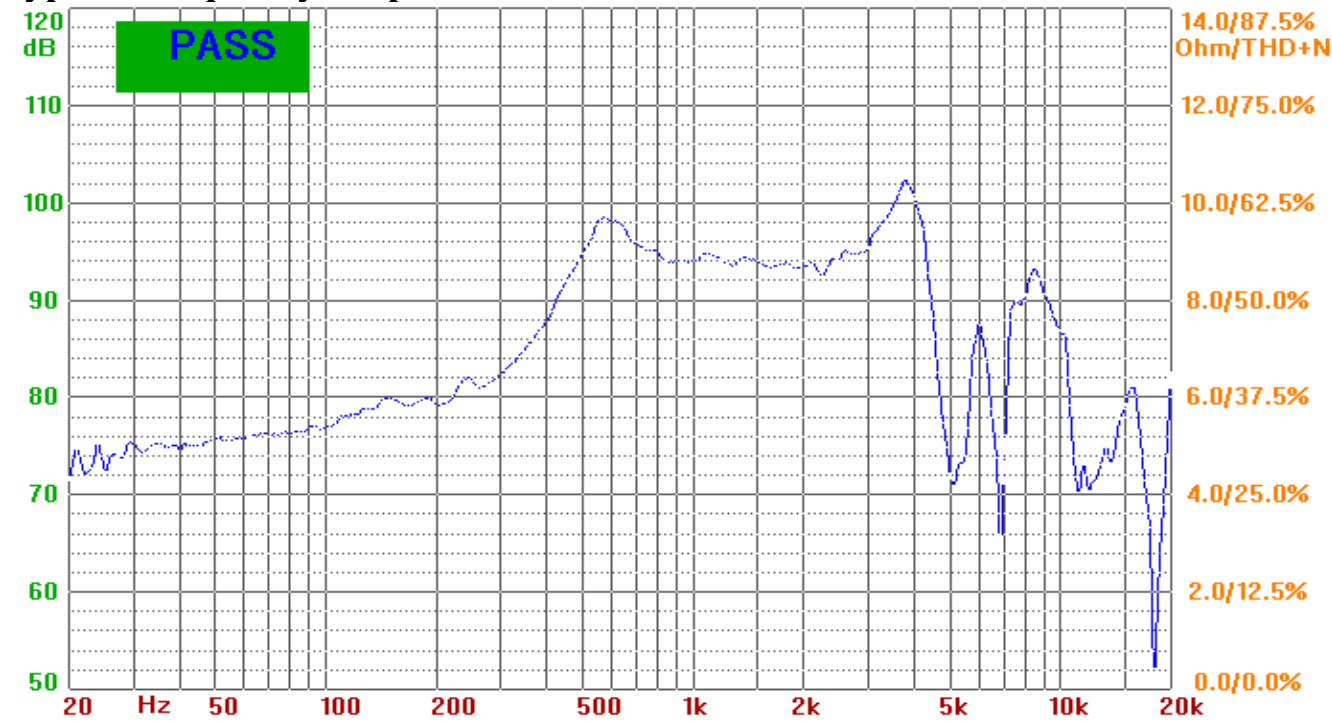
Specifications

Parameters	Values	Units
Rated Input Power	1.0	Watts
Max Input Power	2.0	Watts
Impedance	$8 \pm 15\%$	Ohms
Output SPL @ 1W/1M (AVG. 0.8, 1.0, 1.2, 1.5 kHz)	84 ± 3	dB
Output SPL @ 0.1W/10cm (AVG. 0.8, 1.0, 1.2, 1.5 kHz)	94 ± 3	
Resonant Frequency (Fo)	$540 \pm 20\%$	Hz
Frequency Range	Fo ~ 4,500	Hz
THD (1kHz, 0.5W)	5% Max	-
Frame Material	Metal	-
Magnet Material	NdFeB	-
Diaphragm Material	Paper	-
Weight	16.2g	Grams
Buzz, Rattle, etc.	Must be normal at sine wave between Fo-7,500Hz	-
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	-30 ~ 70	°C
Operating Temperature	-20 ~ 60	°C

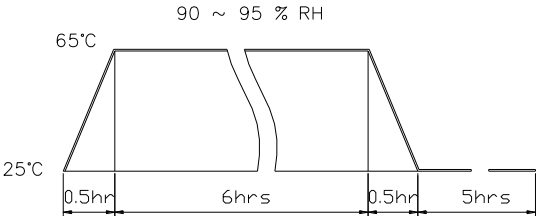
Measurement Method (L=10cm, Power=2.83Vrms)



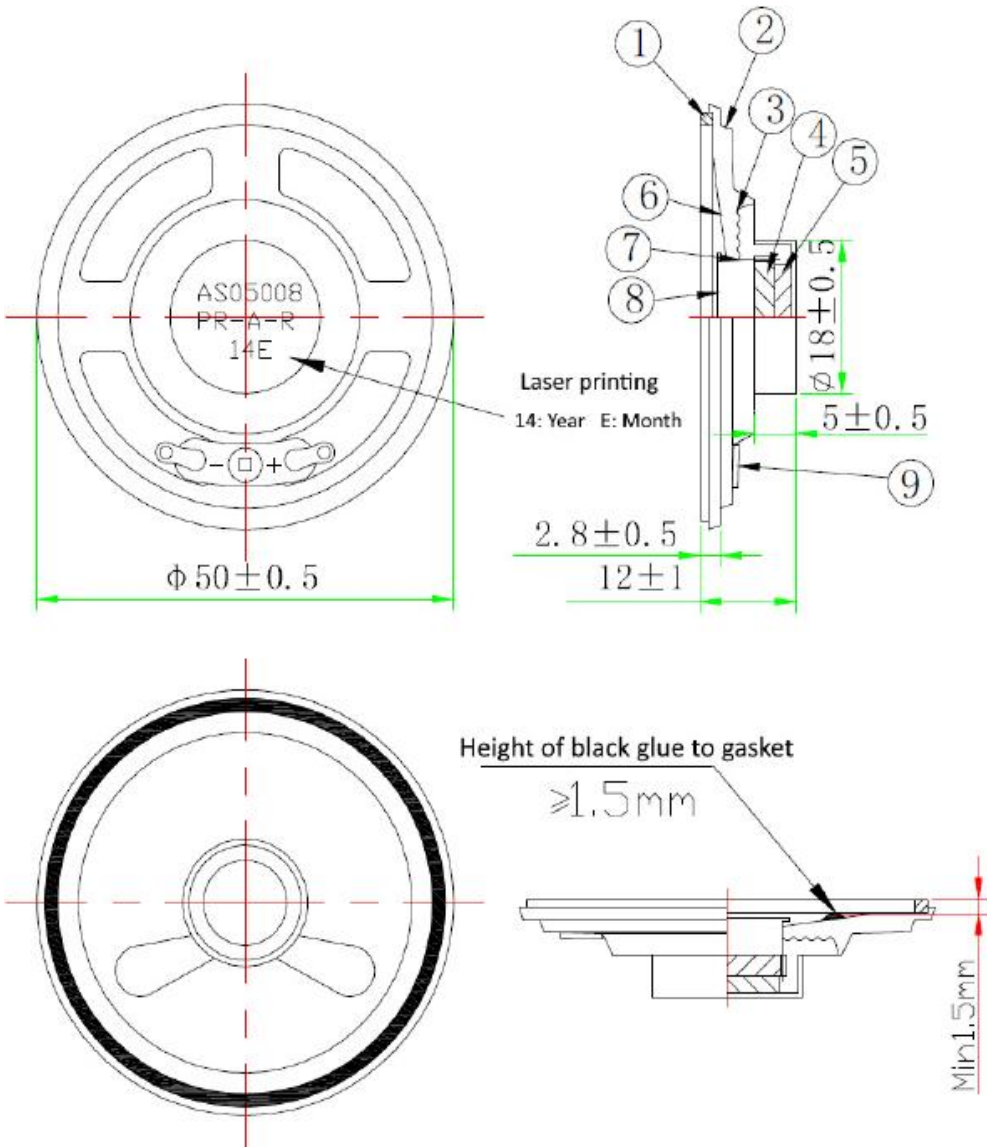
Typical Frequency Response



Reliability Testing (Note: After each test, let rest for 6 hours in 25°C, and then each part should be within ±3dB.

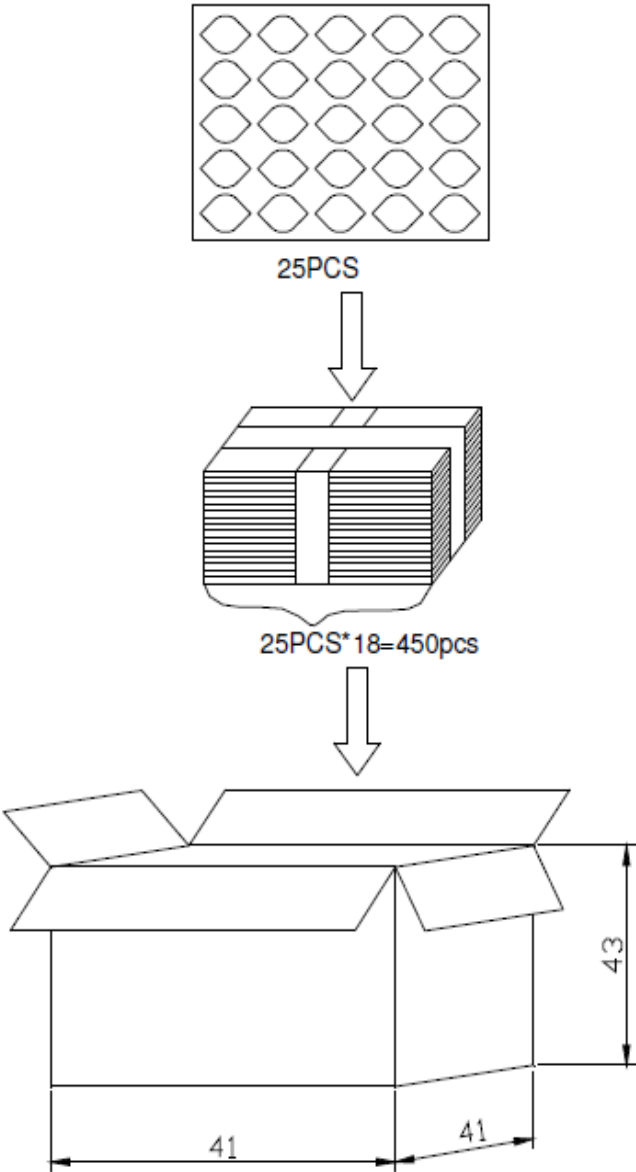
Type of Test	Test Specifications
High Temperature Test	96 hours at 70°C
Low Temperature Test	96 hours at -30°C
Humidity Test	96 hours at 30°C with relative humidity at 92~95%
Temperature Cycle Testing	Subject each part to 5 cycles, with each cycle consisting of: 
Vibration Test	Speaker shall be measured after being applied vibration of amplitude of 1.5mm with 10-55-10Hz band of vibration frequency in 3 perpendicular directions for 2 hours each.
Drop Test	Drop the speakers contained in normal box onto the board 40mm thick 10times from the height of 75cm
Load Test	White noise at rated power is applied for 96 hours

Dimensions



PART NO.	PART NAME	Q'TY	MATERIAL	REMARK
1	Gasket	1	Paper	
2	Frame	1	SPCC	
3	Damper	1	Cloth	
4	Plate	1	SPCC	
5	Magnet	1	NdFeB	
6	Cone	1	Paper	
7	Voice coil	1	PL+Cu	
8	Dust cap	1	Paper	
9	Terminals	1	Paper+steel	
10	Tinsel lead	2	Braided wire	3 strands

Packaging



Specifications Revisions			
Revision	Description	Date	Approved
-	Released from Engineering	09/25/2006	-
A	Revised to Inventor 3D Drawing Template	05/24/2010	B.R.
B	Change Voice Coil Wire to Braided Wire Type	03/23/2015	B.R.
C	Update Spec Format, Adjust Max Power, Resonant Frequency, and Operating Temperature, Update Drawing	06/12/2024	M.L.
D	Corrected speaker terminal polarity notations on Dimensions drawing	05/11/2026	KH
E	Updated "Output SPL" conditions	05/13/2026	KH

- Note:
- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ±0.5mm and angles are ±3°.
 - 2. Specifications subject to change or withdrawal without notice.