



PUIaudio



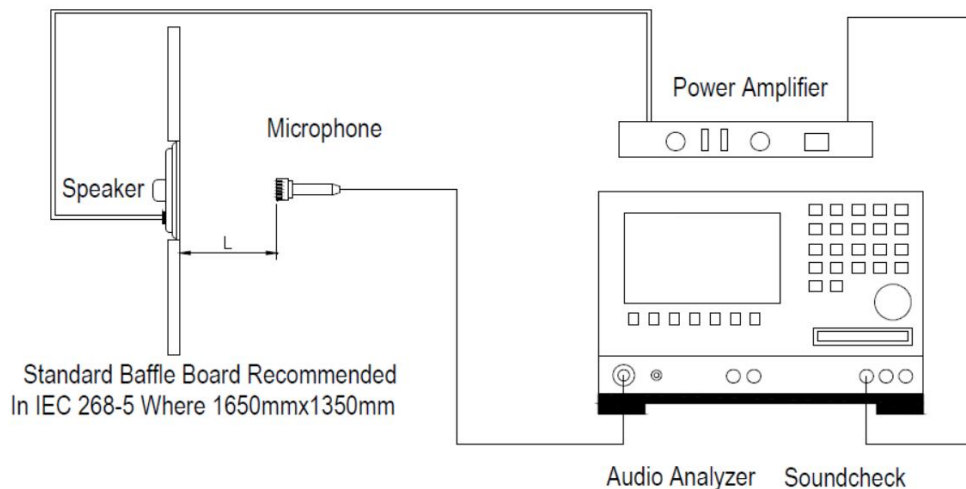
Data Sheet

AS02808MR-R

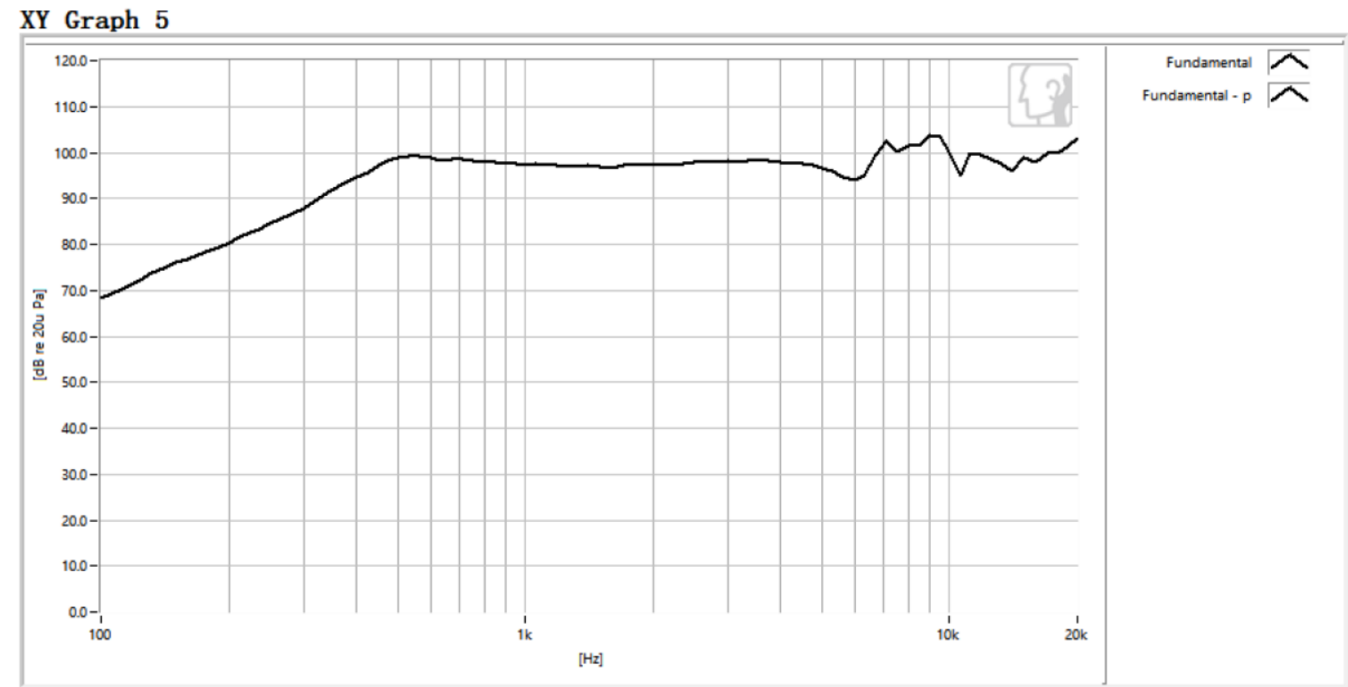
Specifications

Parameters	Values	Units
Rated Input Power	1.0	Watts
Max Input Power	1.5	Watts
Impedance	$8 \pm 15\%$	Ohms
Output SPL @ 1M/1W (Avg. 0.6, 0.8, 1.0, 1.2kHz)	80 ± 3	dB
Output SPL @ 10cm/1W (Avg. 0.6, 0.8, 1.0, 1.2kHz)	98 ± 3	
Resonant Frequency	$500 \pm 20\%$	Hz
Frequency Range	$F_0 \sim 20,000$	Hz
THD @ 1kHz/0.1W	<10%	-
Diaphragm Material	Mylar	-
Magnet Material	NdFeB	-
Frame Material	Metal	-
Weight	5.5	Grams
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-30 ~ 60	°C
Operating Temperature	-20 ~ 60	°C

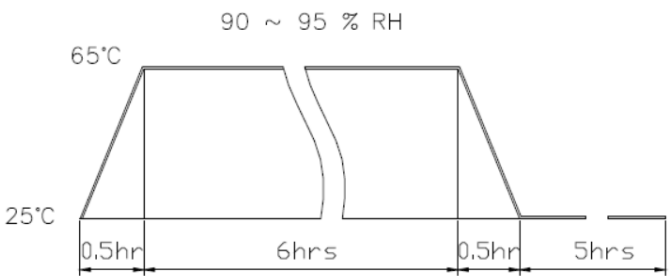
Measurement Method (1W, L=10cm)



Typical Frequency Response (1W, 10cm)

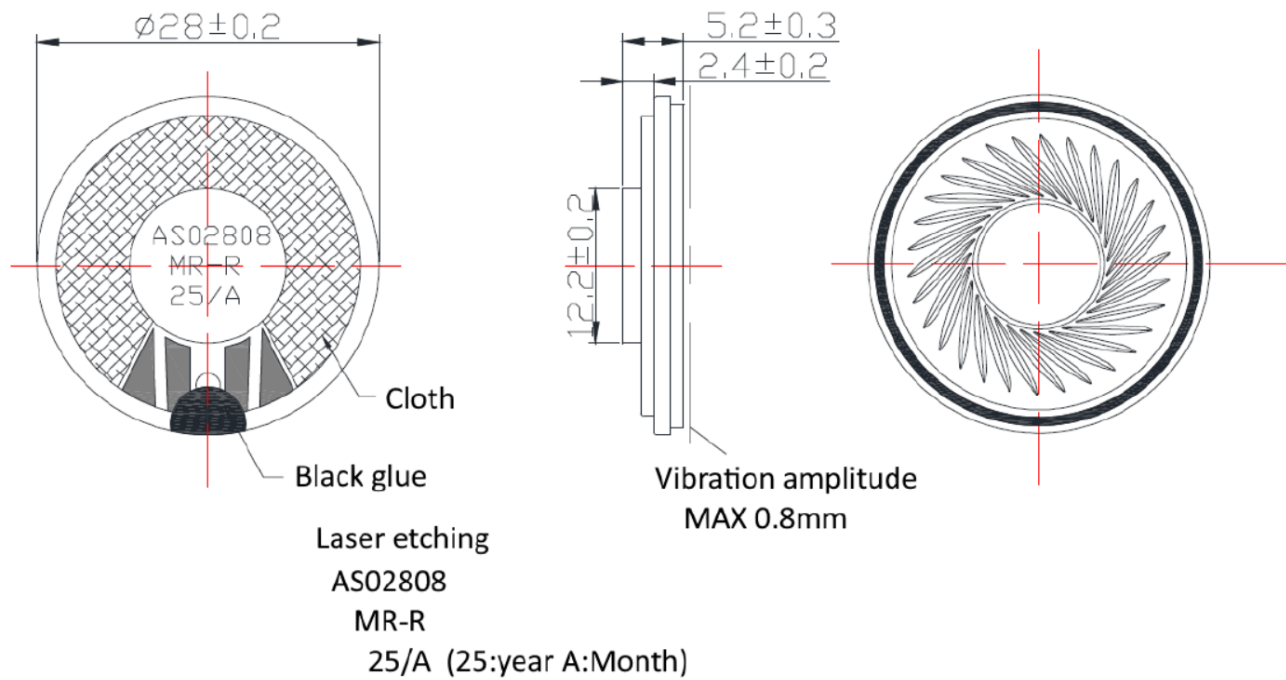


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at 60°C
Low Temperature Test	96 hours at -20°C
Humidity Test	96 hours at 30°C, 95% RH
Temperature Humidity Cycle Testing	Run for 5 cycles with each cycle consisting of: 
Vibration Test	10-55-10Hz Sine-Wave Sweep 15min. 5G (constant) X/Y/Z direction, 2 hours each, total 6 hours.
Life Test	Pink-Noise at rated power for 96 hours.
Drop Test	Free drop a unit from 75cm height to 40mm thick board in X/Y/Z direction 2 times each, total 10 times

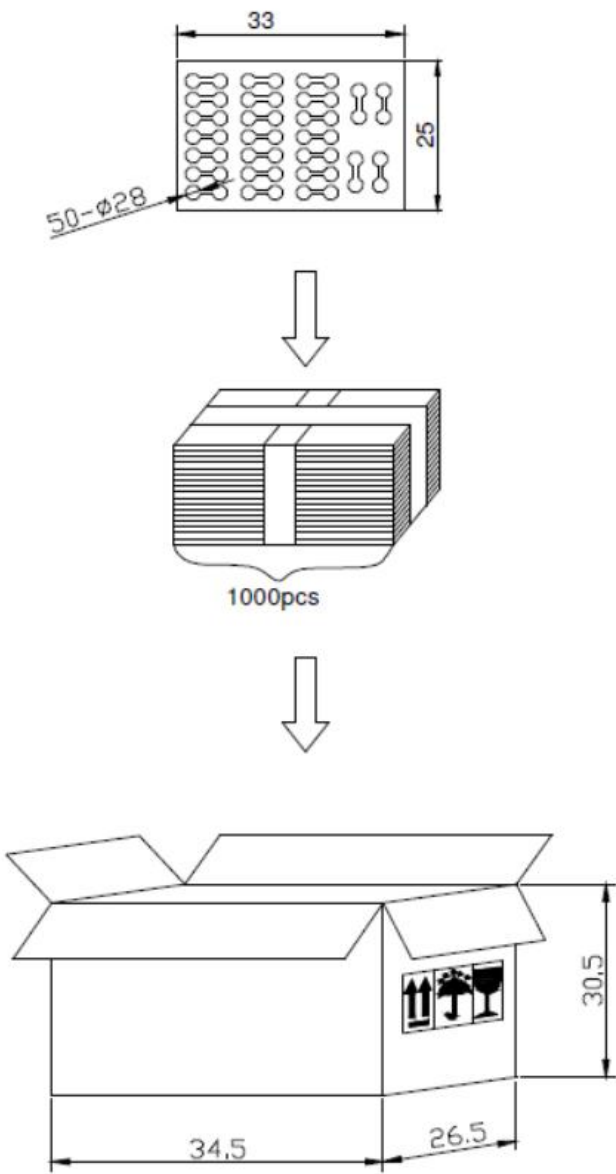
After each test the part shall be within $\pm 3\text{dB}$ of initial SPL.

Dimensions



Packaging

- 50pcs Tray
- 20 trays master carton
- Total 1000pcs



Specifications Revisions

Revision	Description	Date	Approved
-	Released from Engineering	02/16/2006	-
A	Revised Part Dimension	04/03/2007	BR
B	Revised to Inventor 3D Template	11/13/2007	BR
C	Revised Power Rating and Dimension	11/01/2013	ML
D	Add SPL for 10cm distance, Revised distortion, Update Drawing and Packaging, Add laser etching for part number and date codes lot 25H or newer.	07/17/2025	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.