



PUIaudio



Data Sheet

ASX02208

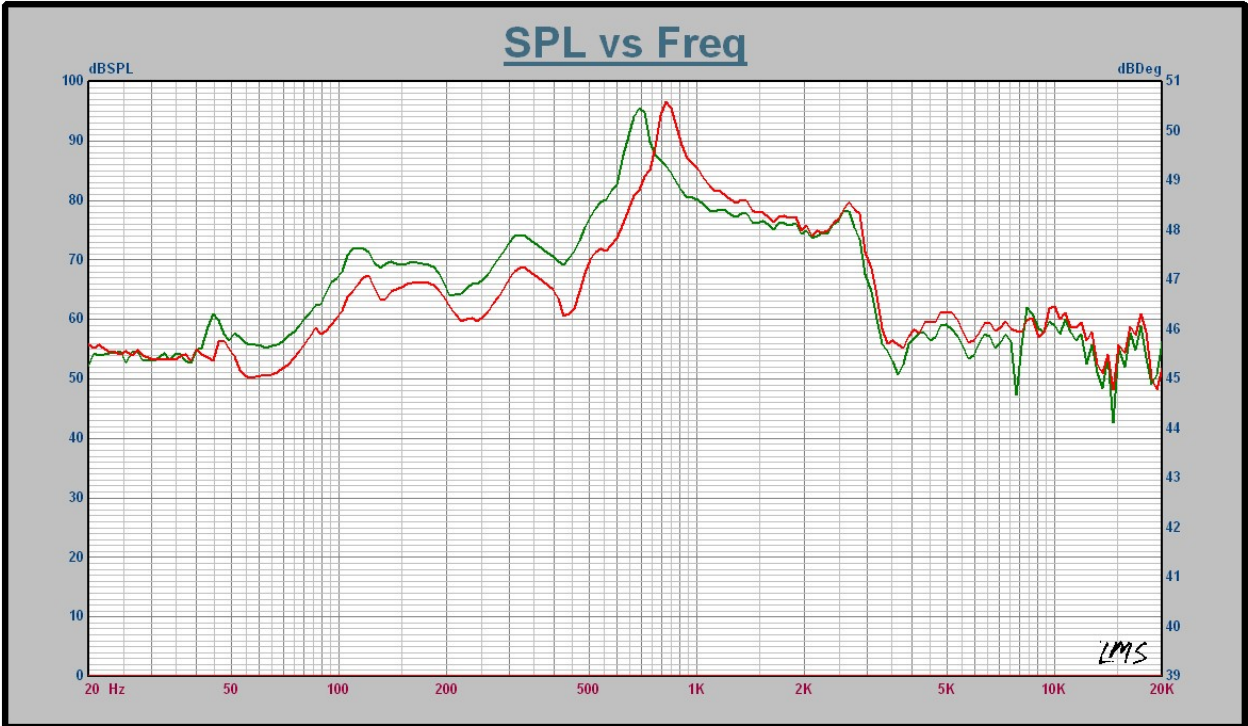
Features

- Small 21.8mm x 14mm package
- 950 Hz Resonant Frequency
- 3W rated Input power

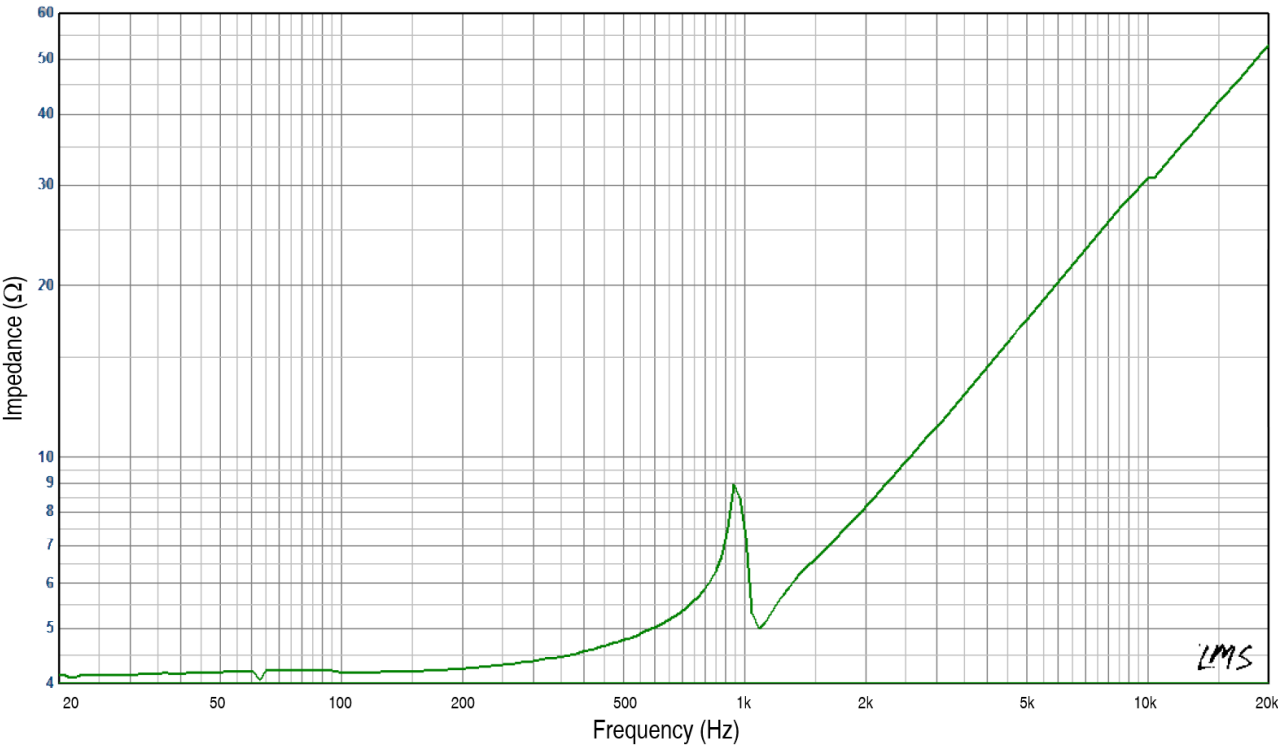
Specifications

Parameters	Values	Units
Rated Continuous Input Power	3	W
Maximum Input Power	5	W
Impedance	$8 \pm 15\%$	Ω
Avg. SPL (1W @ 1M, 40 x 40 x 3.2mm paper honeycomb sound board)	95	dB
Resonant Frequency (f_0)	$950 \pm 20\%$	Hz
Weight	9.15 ± 10	Grams
Buzz, Rattle, etc.	Not audible with $V_{\text{DRIVE}} = 3.46V_{\text{RMS}}$, $200\text{Hz} \leq f \leq 20\text{kHz}$ sine wave	-
Environmental Compliances	RoHS/REACH	-
Polarity	Applying positive dc-current to "+" terminal moves exciter surface forward	-
Operating Temperature	$-20 \leq T_0 \leq 60$	$^{\circ}\text{C}$
Storage Temperature	$-46 \leq T_s \leq 71$	$^{\circ}\text{C}$
Humidity Range	$15 \leq \text{RH} \leq 95$	%

SPL vs. Frequency (1W, 1M)



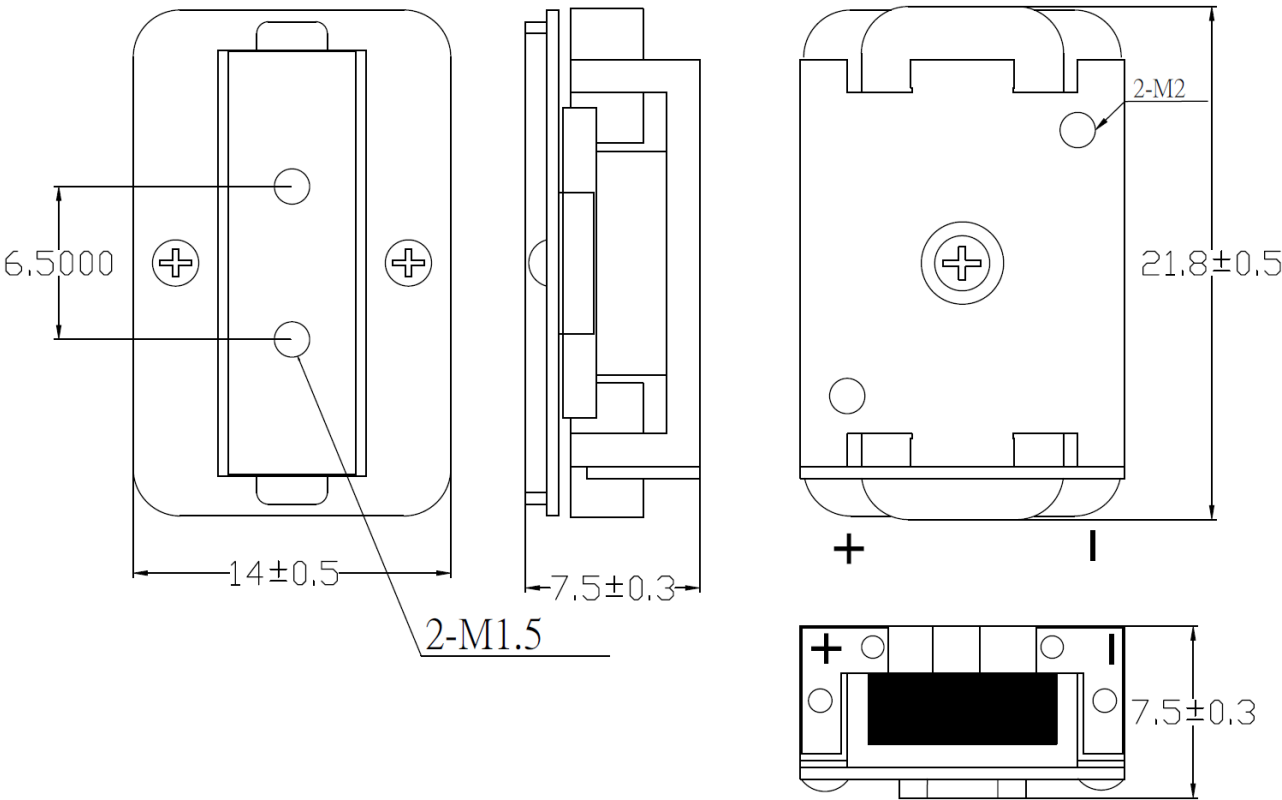
Impedance Response vs. Frequency



Reliability Testing

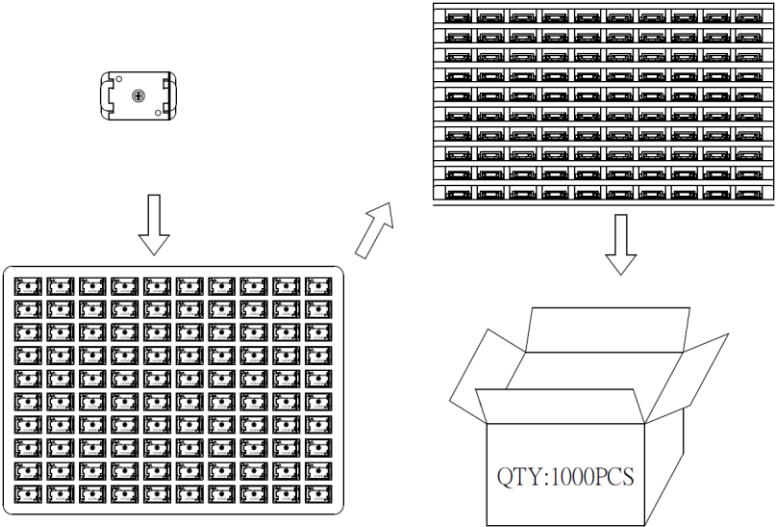
Type of Test	Test Specifications
High Temperature Test	24 hours at 60°C, ±2°C
Low Temperature Test	1 hour at -10°C, ±3°C, then 2 hours at -20°C, ±3°C
Humidity Test	48 hours at 40°C, ±2°C with relative humidity at 93%
Drop Test	Drop the speaker 600mm, temperature = 60°C, ±5°C
Load Test	Complies with IEC 268-5. V _{DRIVE} = 4.90V _{RMS} , duration = 48hrs.

Dimensions



Packaging

100pcs per tray, 1000pcs per master carton



Specifications Revisions

Revision	Description	Date	Approved
A	Released from Engineering	05/22/2026	JD

Note:

- Unless otherwise specified:
 - All dimensions are in millimeters.
 - Default tolerances are $\pm 0.5\text{mm}$ and angles are $\pm 3^\circ$.
- Specifications cannot be changed without customer approval.
- For applications that are to be subjected to external force, shock, or vibration, PUI recommends mechanical reinforcement to ensure rigid coupling beyond that provided by the 3M VHB F-9473PC 2-sided tape. Rear Magnet contains threads for installing a screw mount bracket.