



PUI audio



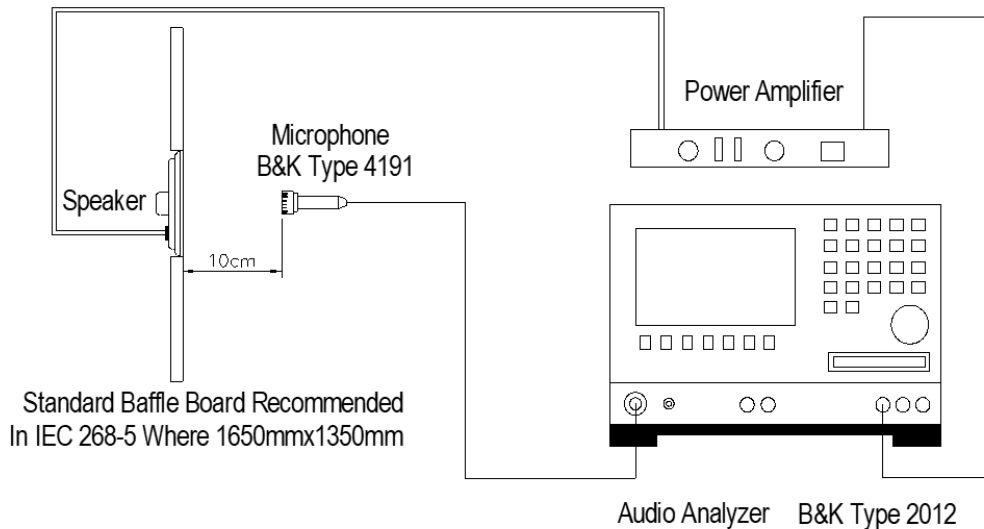
Data Sheet	AS01508MO-SC11-2
------------	------------------

Specifications

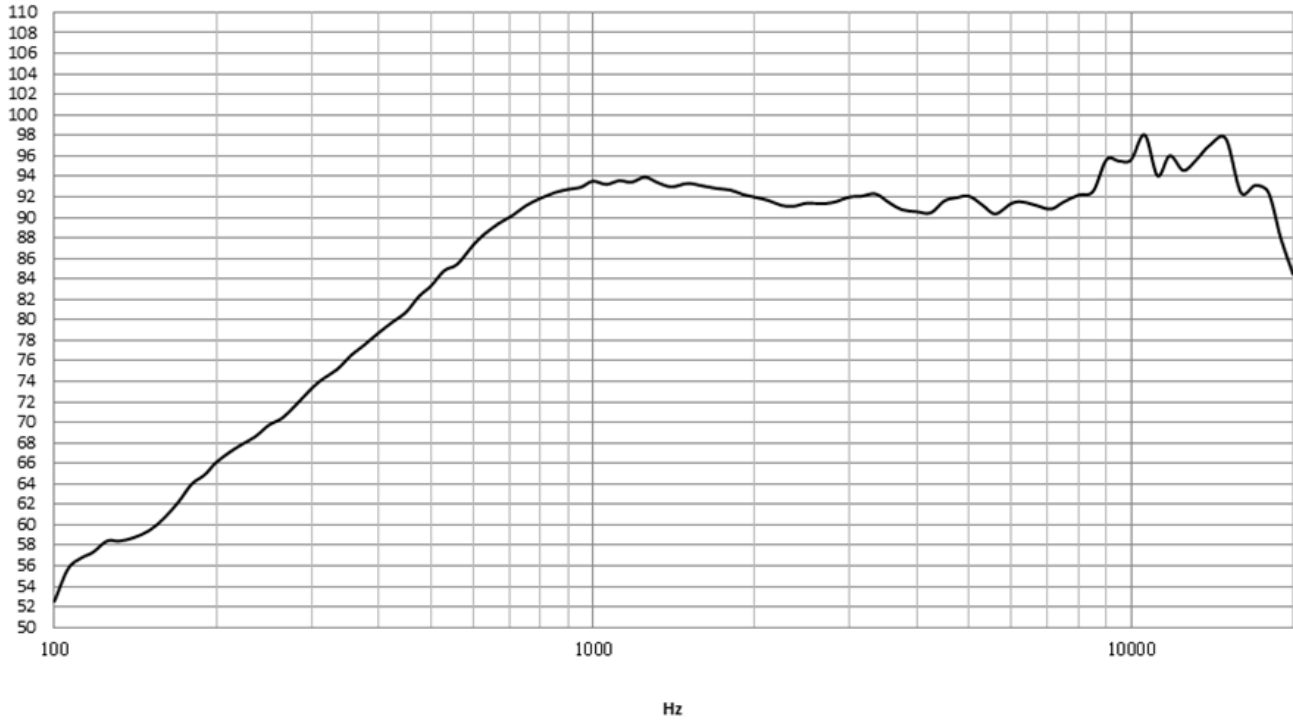
Parameters	Values	Units
Rated Input Power	0.8	Watts
Max Input Power	1.0	Watts
Impedance	$8 \pm 15\%$	Ohms
Output SPL (AVG. 0.8, 1.0, 1.5, 2.0kHz) Free Air (1Vrms, 10cm) 1cc Box (2.53Vrms, 10cm)	85 \pm 3 (free air) 93 \pm 3 (1cc box)	dB
Resonant Frequency Free Air (1Vrms, 10cm) 1cc Box (2.53Vrms, 10cm)	600 \pm 20% (free air) 900 \pm 20% (1cc box)	Hz
Frequency Range	$F_0 \sim 20,000$	Hz
THD (@2kHz, 2.53Vrms, 10cm)	10% Max	-
Frame Material	ABS	-
Magnet Material	NdFeB	-
Diaphragm Material	Mylar	-
Weight	1.5	Grams
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-20 ~ +70	°C

Measurement Method (2.53Vrms sine wave sweep)

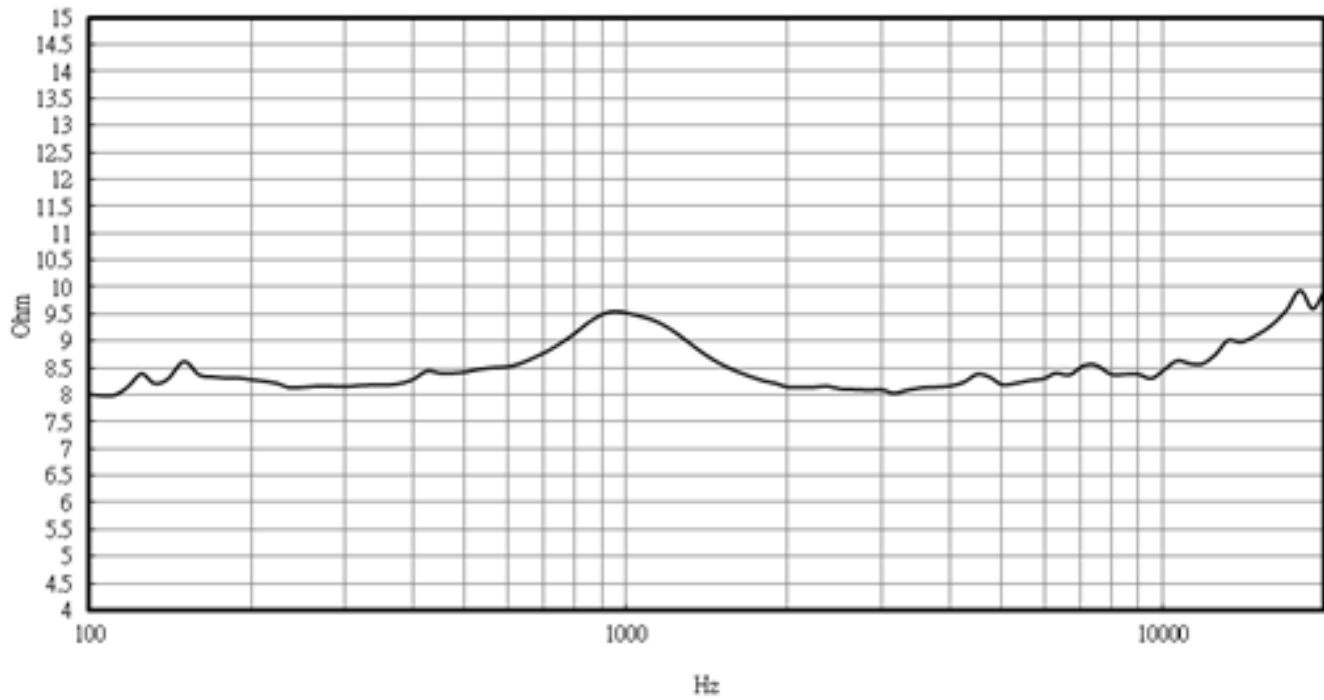
Standard test condition of speaker



Typical Frequency Response (2.53Vrms sine wave sweep @ 10cm, in 1cc box)



THD vs Frequency (2.53Vrms @ 10cm, in 1cc box)

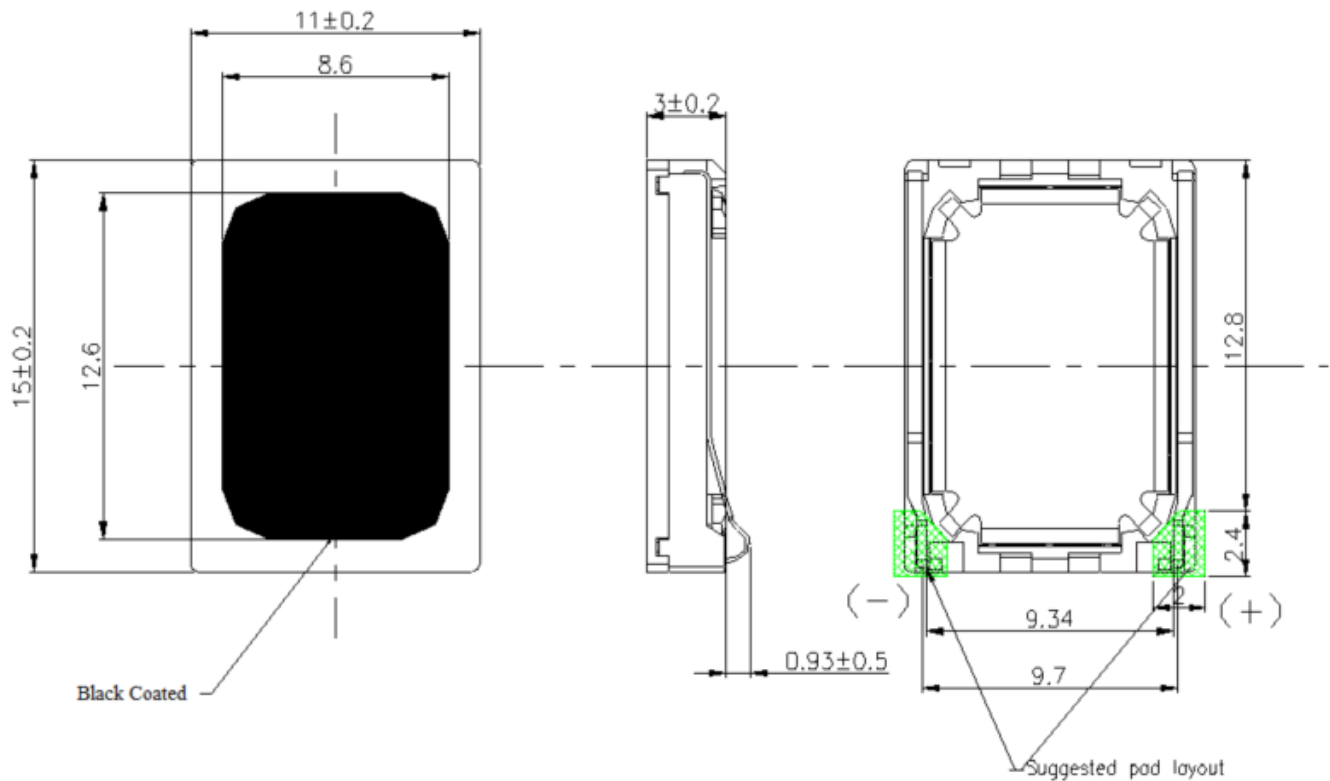


Reliability Testing

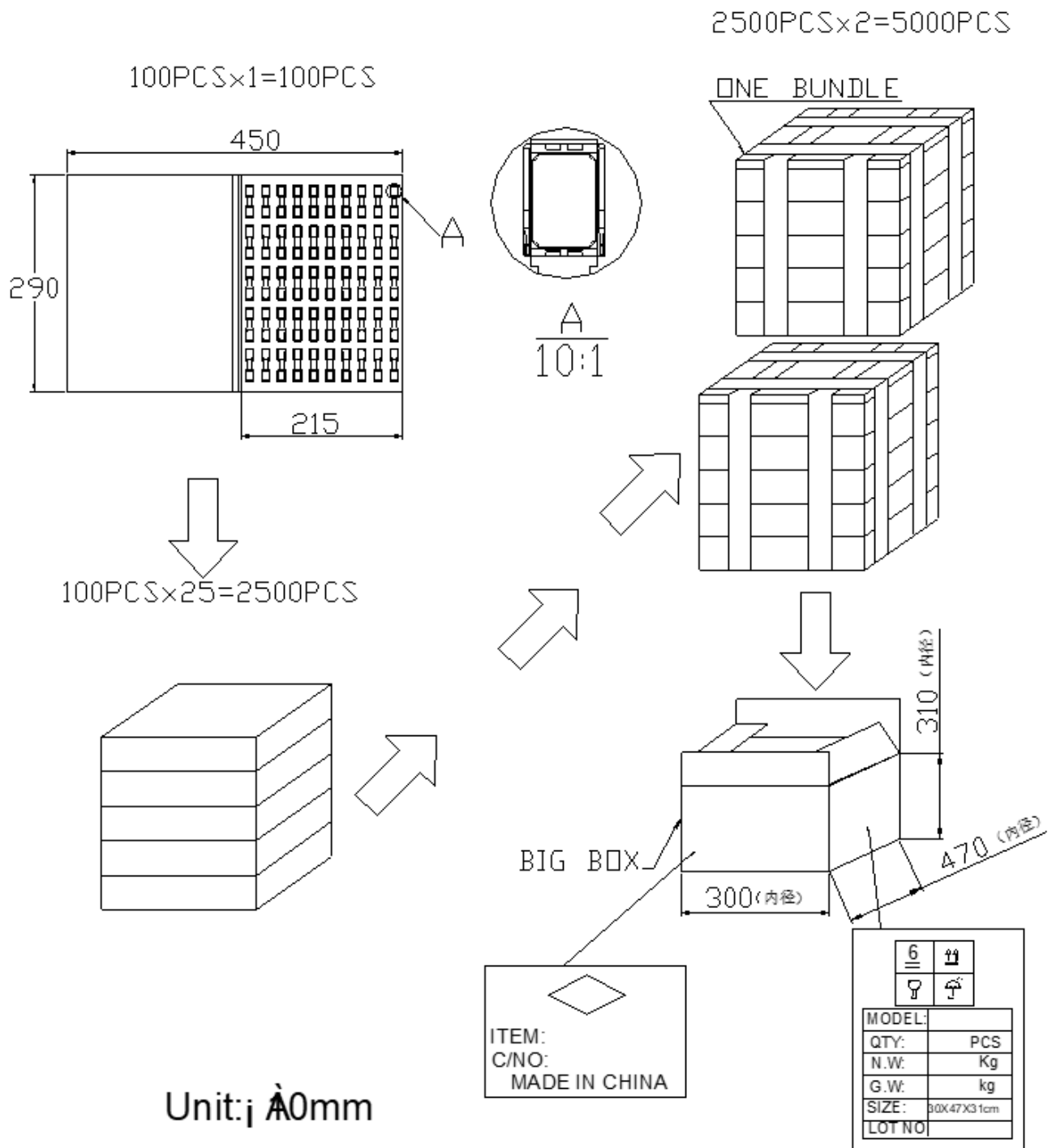
Type of Test	Test Specifications
High Temperature Test	Temperature 85°C for 96 hours
Low Temperature Test	Temperature -40°C for 96 hours
Humidity Test	40°C with 90% to 95% relative humidity for 96 hours
Temperature Cycle Testing	Low temperature -40C, High temperature 85C. Cycle 1hr each temperature for 10 cycles.
Vibration Test	10-55-10Hz Sine Wave Sweep 15min, 5G(Constant) in XYZ direction for 2 hours each, total 6 hours.
Drop Test	Drop from 1.5m height attached to 100g fixture. Drop 2x onto each corner.

After tests, the speaker shall rest for 1 hour. SPL shall not deviate ± 3 dB from pre-test measurement.

Dimensions



Packaging



Specifications Revisions

Revision	Description	Date	Approved
A	Released from Engineering	12/10/2024	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.