



PUI audio



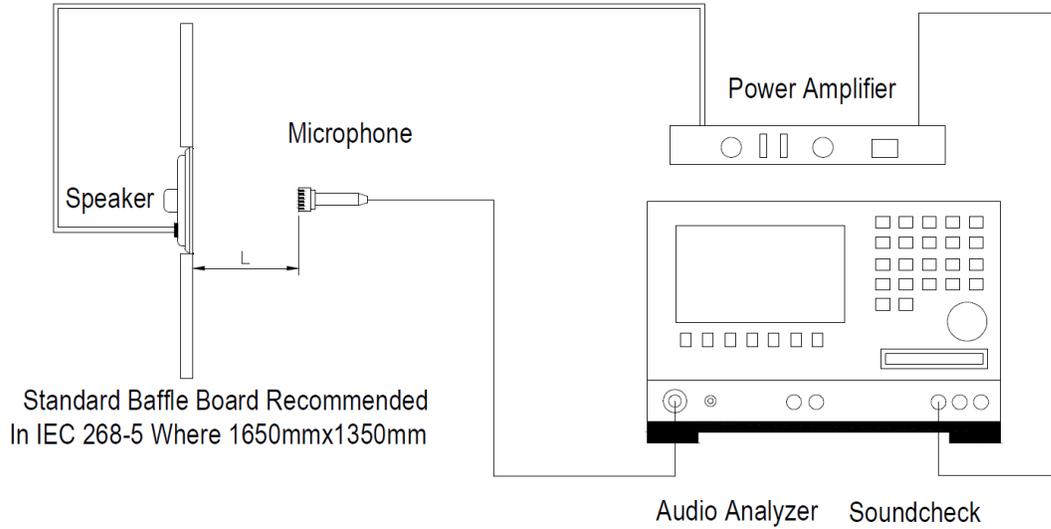
Data Sheet

AS04008MR-11-WP-LW54-R

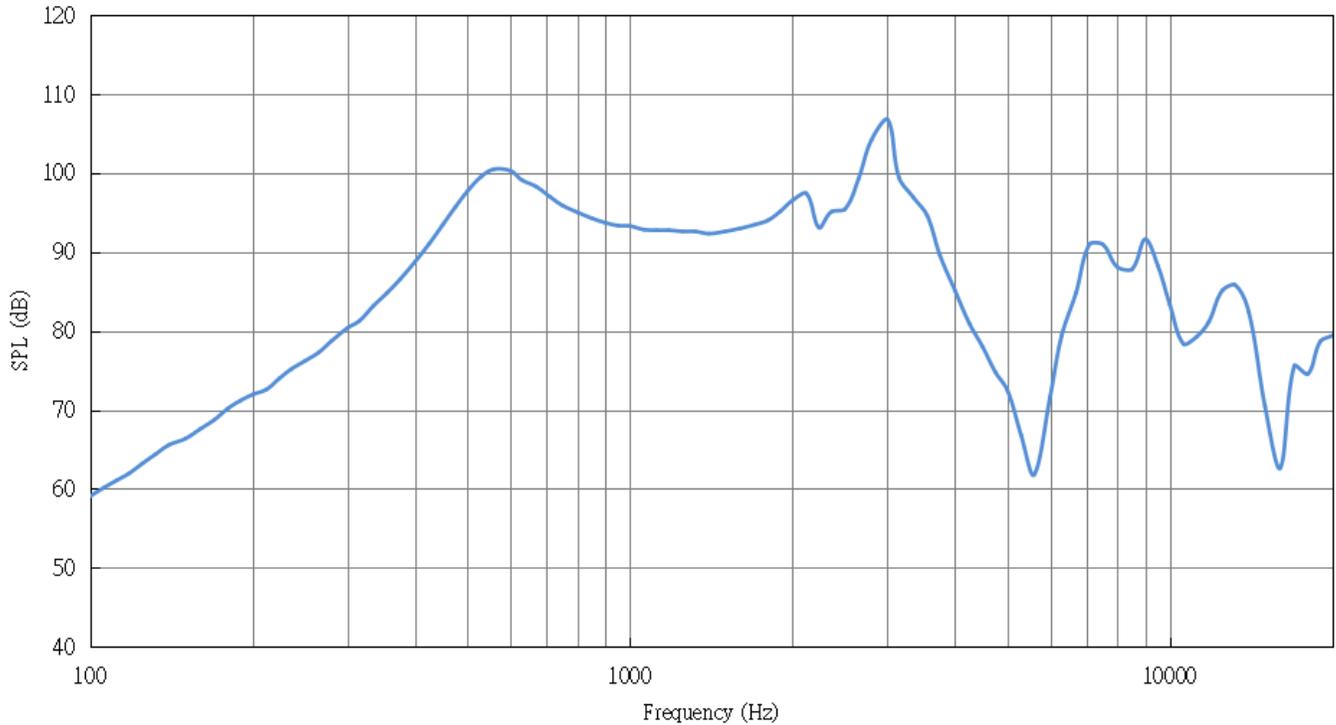
Specifications

Parameters	Values	Units
Rated Input Power	1.0	Watts
Max Input Power	2.0	Watts
Impedance	$8 \pm 15\%$	Ohms
Output SPL (Avg. 0.8, 1.0, 1.2, 1.5kHz @ 0.1W/0.1m)	93.0 ± 3	dB
Resonant Frequency (f_0)	$550 \pm 20\%$	Hz
Frequency Range (-10dB SPL)	$f_0 \sim 10,000$	Hz
THD (1kHz, 1.0W Drive)	≤ 10	%
Diaphragm Material	Mylar	-
Frame Material	Metal	-
Magnet Material	NdFeB	-
Weight	10	Grams
Buzz, Rattle, etc.	Must not be audible with 2.83V _{RMS} sine wave	-
Environmental Compliance	ROHS/REACH	-
Ingress Protection	IP67	Front Side Only
Polarity	Cone moves forward with positive dc current applied to "+" terminal	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-20 ~ +65	°C

Measurement Method (Measured with 0.1W, L = 10cm, Temperature: 25 ~ 35°C, Relative Humidity: 25%~75%.)



Typical Frequency Response (Measured with 1W drive, distance = 10cm)

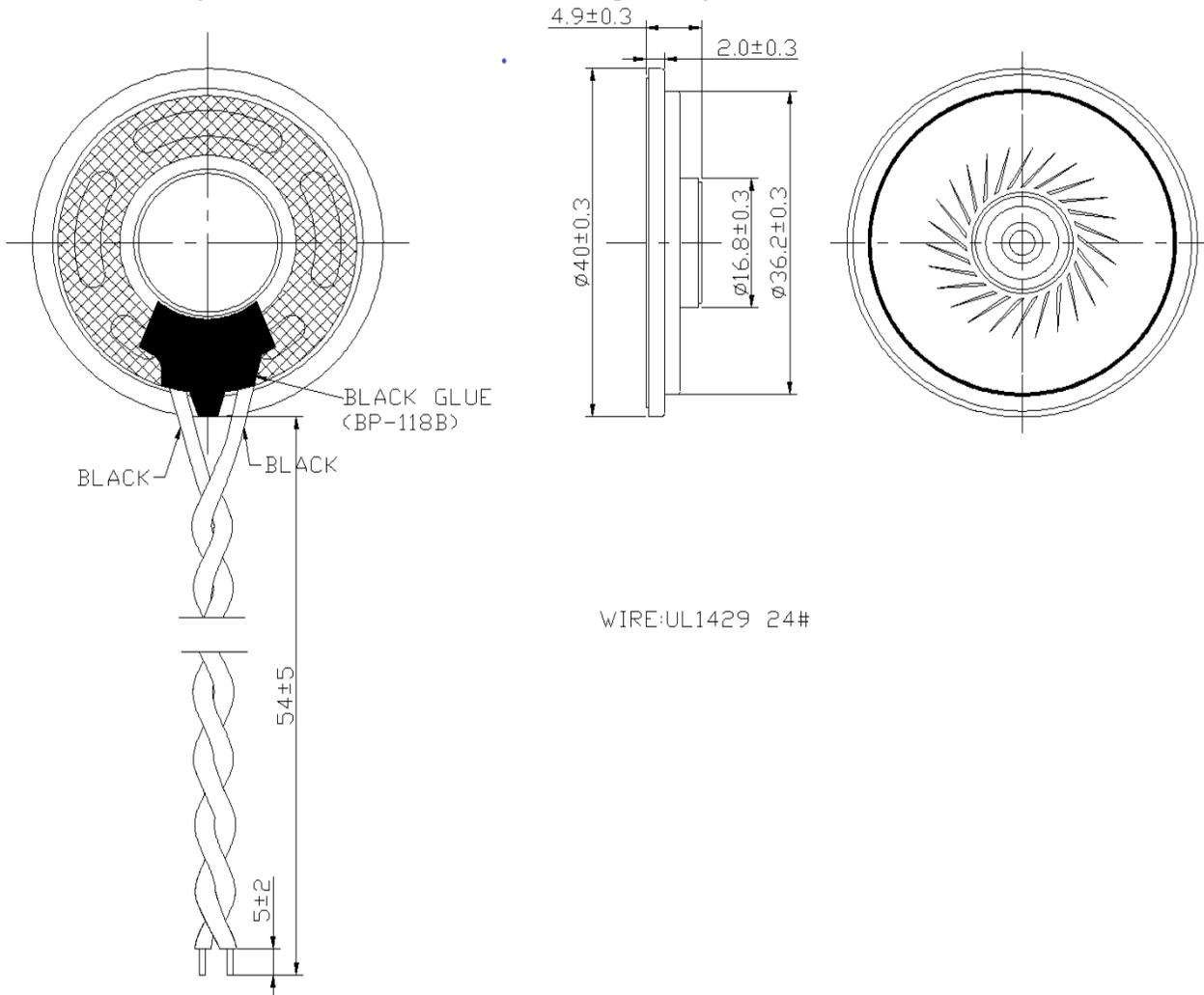


Reliability Testing

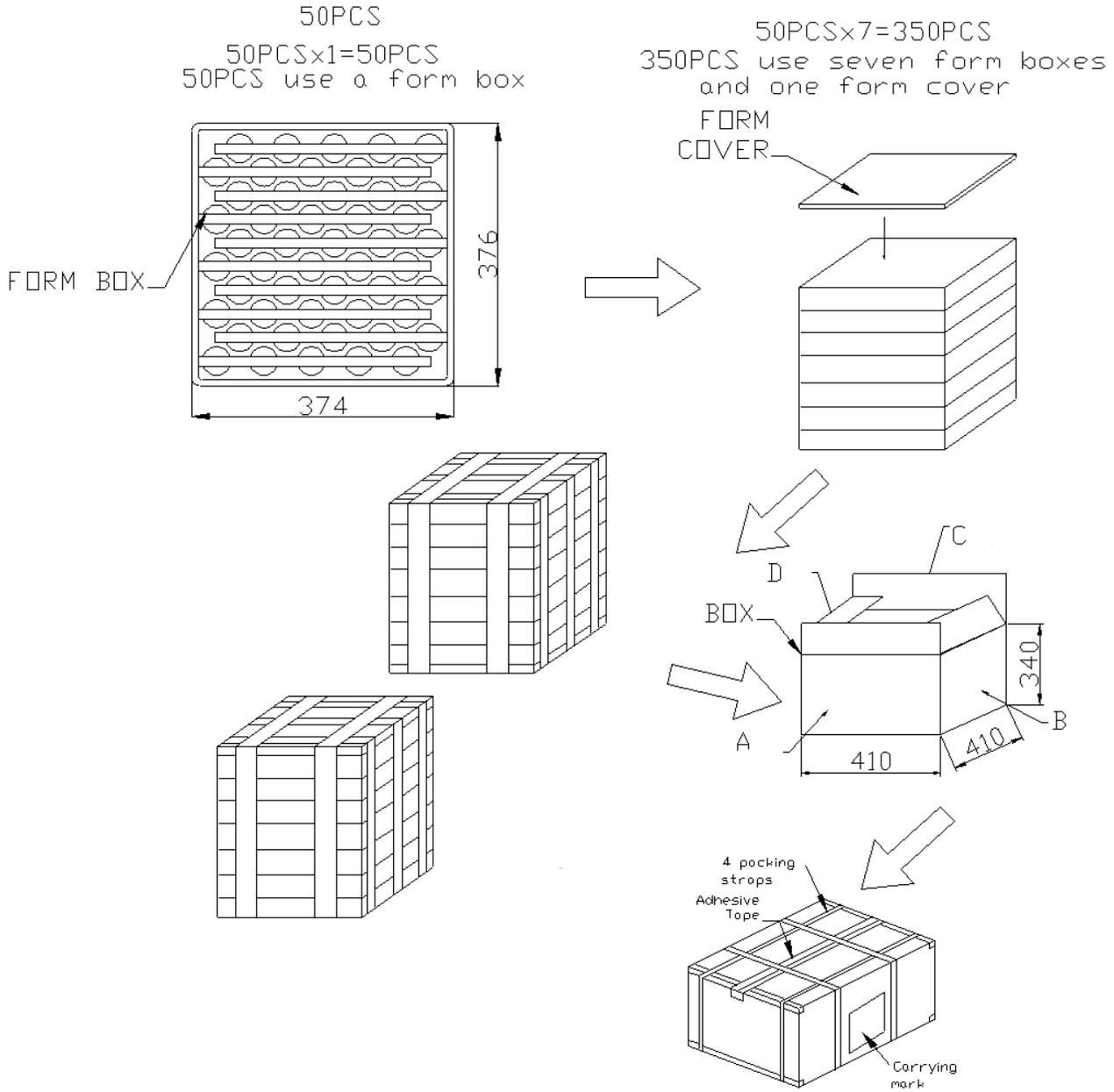
Type of Test	Test Specifications
High Temperature Test	96 hours at 85±3°C
Low Temperature Test	96 hours at -40±3°C
Humidity Test	96 hours at 40±3°C with relative humidity at 95%
Temperature Cycle Testing	Low temperature: -40°C ± 3°C, temperature: +85°C ± 3°C, cycle: 1 hour/cycle each, and then keep 5 cycles in a room
Vibration Test	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
Drop Test	Free drop from 100cm height to a board. of 20mm thick x,y, z 6 direction. 1 times each, total 6 times.
Load Test	Must perform normal with program White-Noise source at Rated Power for 96 Hours

After each test let rest for 6 hours in standard room temperature, the part shall be within ±3dB.

Dimensions (Tolerance: ±0.3mm, unless otherwise specified.)



Packaging



Specifications Revisions

Revision	Description	Date
A	Released from Engineering	04/13/2020

Note:

- Unless otherwise specified:
 - All dimensions are in millimeters.
 - Default tolerances are $\pm 0.5\text{mm}$ and angles are $\pm 3^\circ$.
- Specifications subject to change or withdrawal without notice.
- Part is IP67 rated from the front of speaker when properly mounted.