



# PUI audio



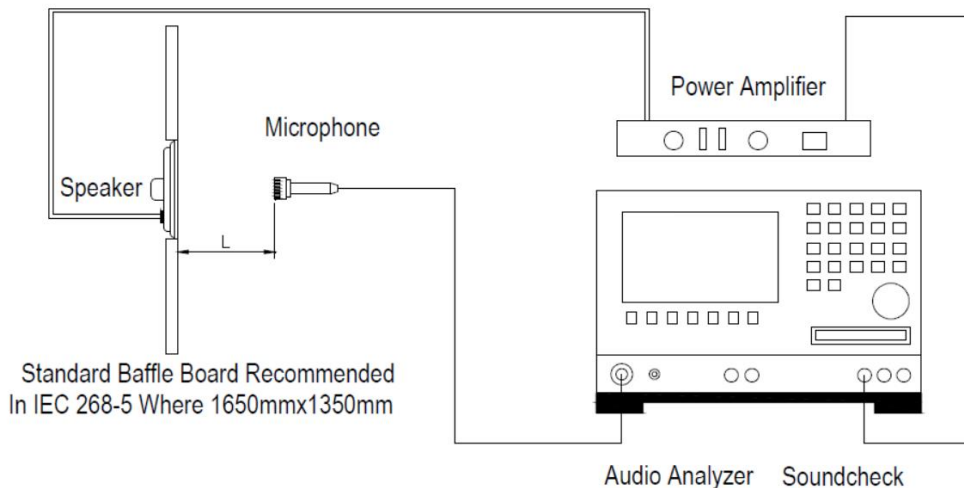
Data Sheet

AS02408MO-LW50-R

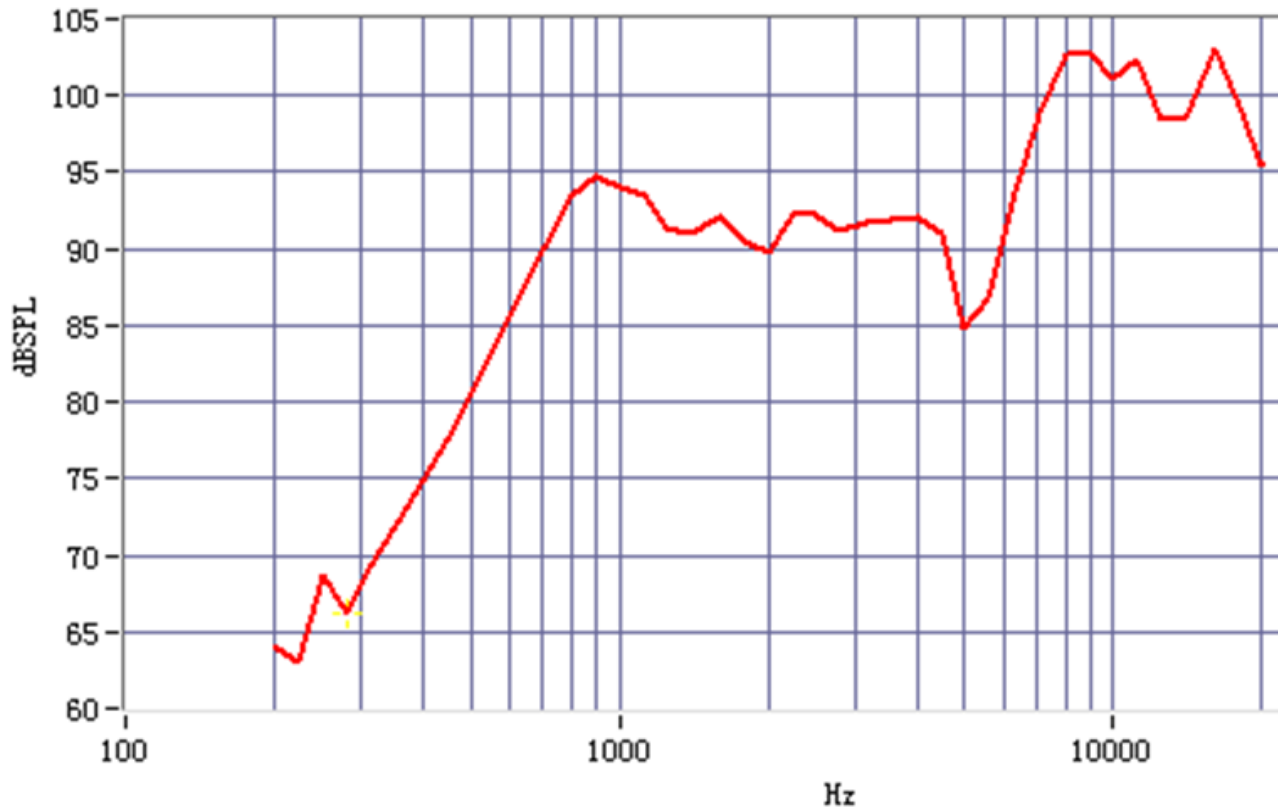
## Specifications

| Parameters   | Values  | Units |
|--|---|-------|
| Rated Input Power                                    | 0.8   | Watts |
| Max Input Power                                      | 1.2   | Watts |
| Impedance  | $8 \pm 15\%$  | Ohms  |
| Output SPL (Avg. @ 0.8, 1.0, 1.2, 1.5kHz; 0.8W/10cm) | $95 \pm 3$  | dB    |
| Resonant Frequency (fo)                              | $850 \pm 20\%$  | Hz    |
| Frequency Range                                      | fo ~ 6,000  | Hz    |
| THD (1.5kHz, 0.8W)                                   | 5% max.   | -     |
| Diaphragm Material                                   | Mylar   | -     |
| Magnet Material                                      | NdFeB   | -     |
| Frame Material                                       | PBT   | -     |
| Weight   | 1.9   | Grams |
| Buzz, Rattle, etc.                                   | Must not be audible with 2Vrms sine wave between fo~5kHz            |       |
| Environmental Compliances                            | ROHS/REACH  | -     |
| Polarity   | Cone most forward when positive DC current applied to pos+ terminal |       |
| Storage Temperature                                  | -30 ~ 70  | °C    |
| Operating Temperature                                | -20 ~ 60  | °C    |

## Measurement Method (0.8W, L=10cm)



## Typical Frequency Response (0.8W, 10cm)

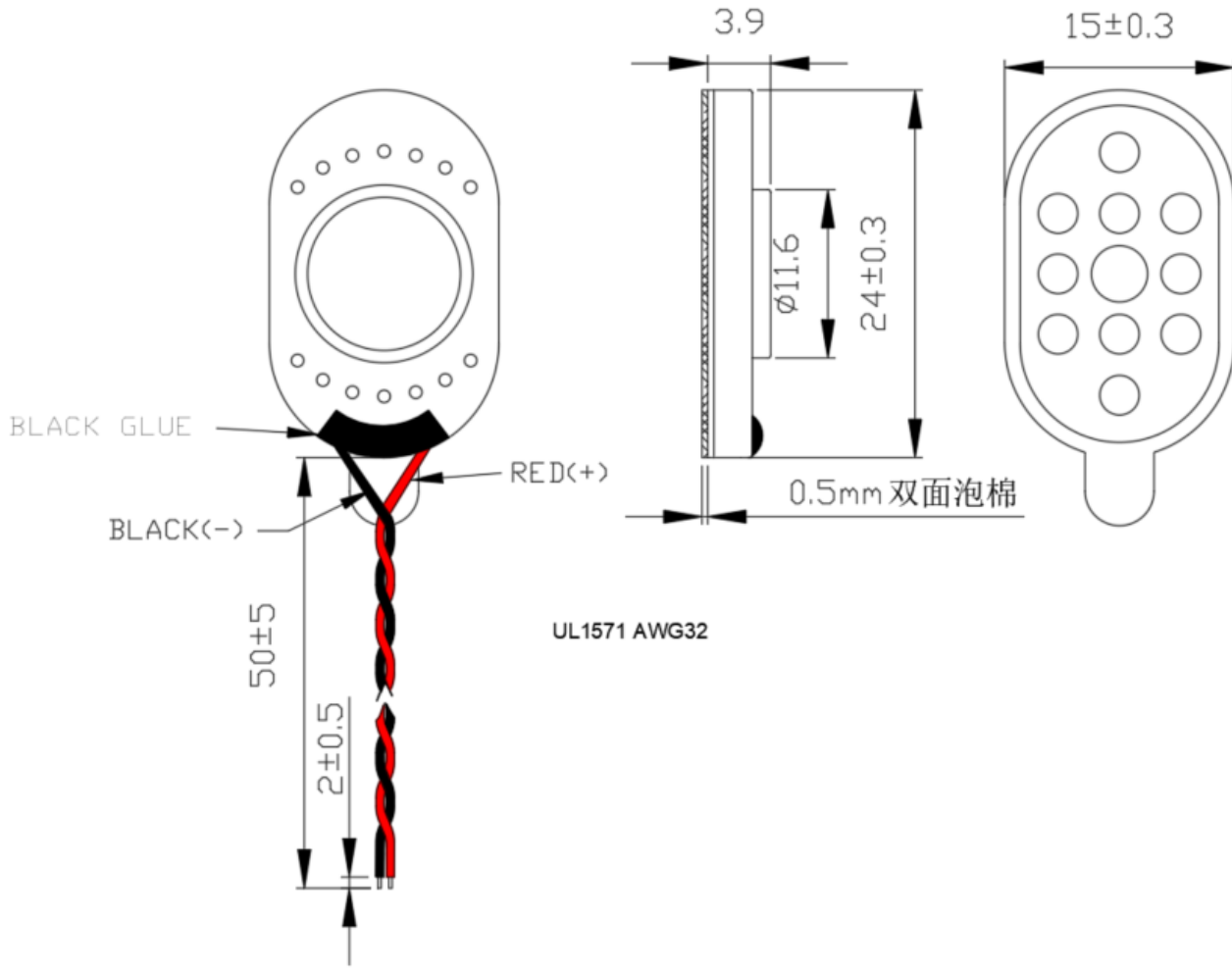


## Reliability Testing

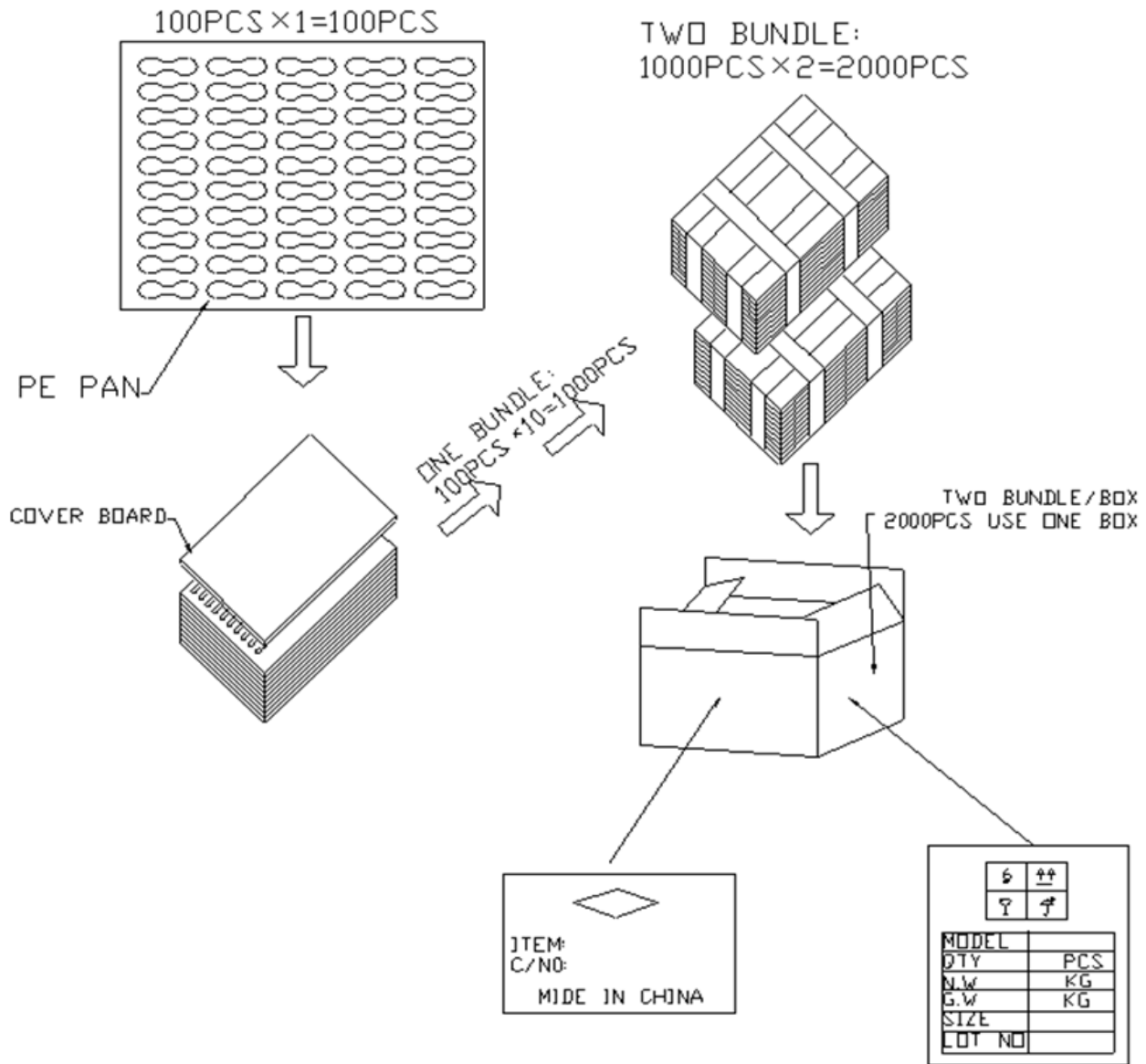
| Type of Test                       | Test Specifications   |
|------------------------------------|---|
| High Temperature Test              | 96 hours at 70°C  |
| Low Temperature Test               | 96 hours at -30°C   |
| Humidity Test                      | 96 hours at 40°C, 95% RH  |
| Temperature Humidity Cycle Testing | Run for 5 cycles with each cycle consisting of:<br>-30C for 1 hour, 70C for 1 hour                        |
| Vibration Test                     | 10-55-10Hz Sine-Wave Sweep 15min. 5G (constant)<br>X/Y/Z direction, 2 hours each, total 6 hours.          |
| Life Test                          | White-Noise at rated power for 96 hours.  |
| Drop Test                          | Free drop a unit from 100cm height to 220mm thick board in<br>X/Y/Z direction 2 times each, total 6 times |

**After each test the part shall be within ±3dB of initial SPL.**

## Dimensions



## Packaging



### Specifications Revisions

| Revision | Description                      | Date       |
|----------|----------------------------------|------------|
| A        | Released from Engineering        | 11/01/2019 |
| B        | Revised Resonant Frequency Range | 07/24/2023 |

#### 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.