



PUI audio



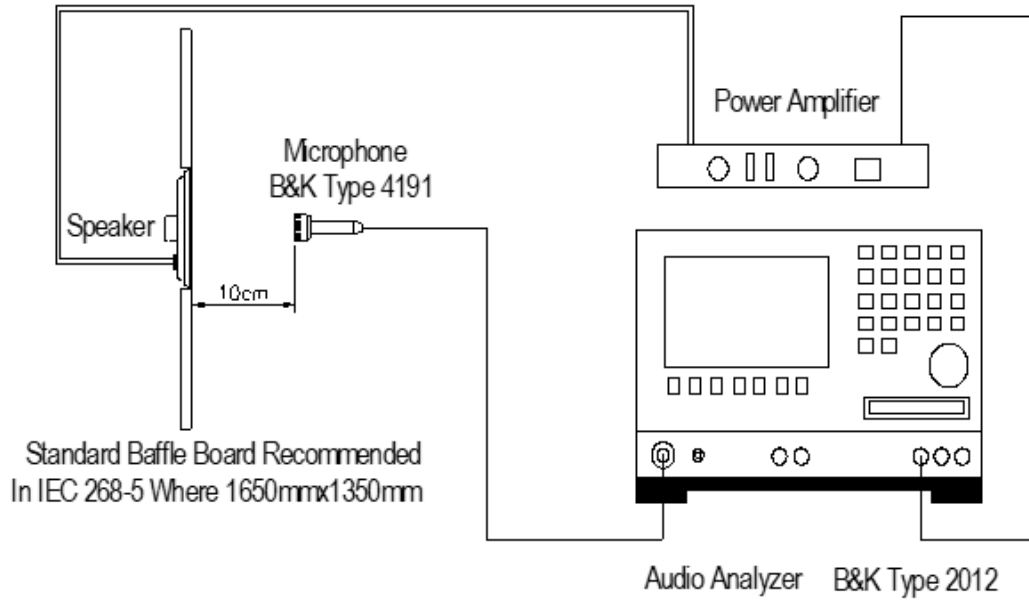
Data Sheet

AS04016CO-WR-R

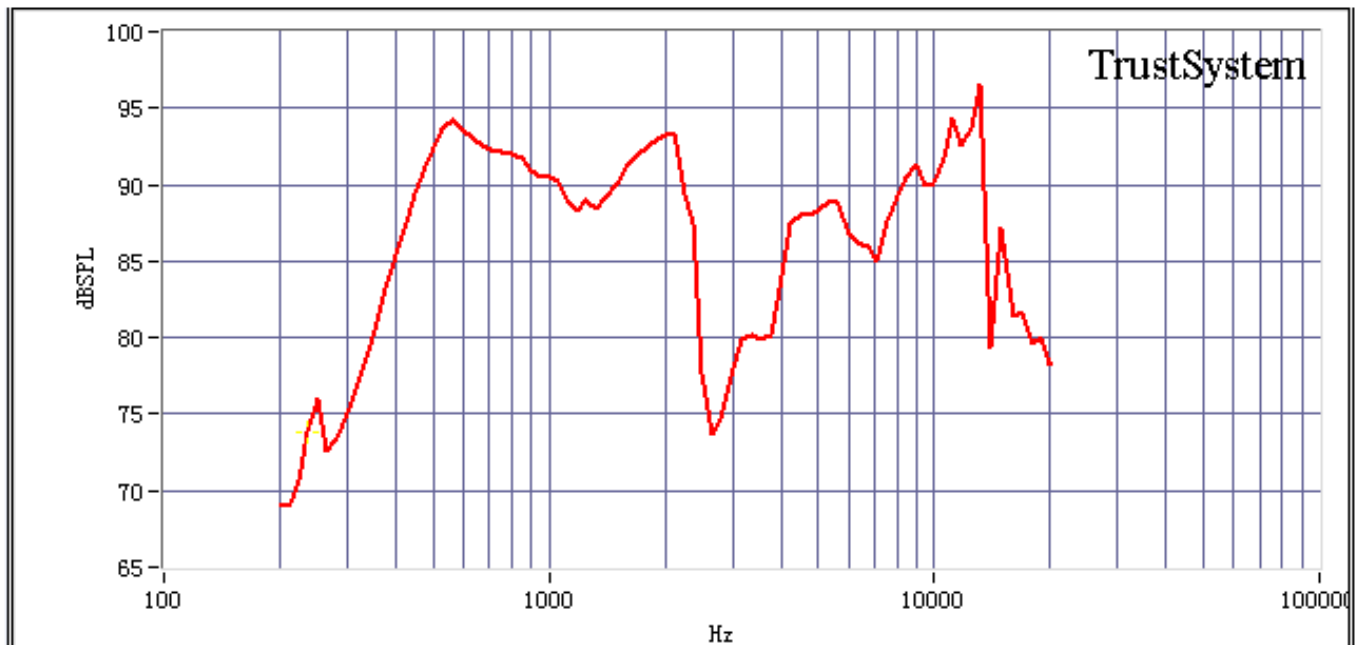
Specifications

| Parameters | Values | Units |
|---|---|-------|
| Rated Input Power | 1.5 | Watts |
| Max Input Power | 3.0 | Watts |
| Impedance | 16 ± 15% | Ohms |
| Output SPL (AVG 0.8, 1.0, 1.2, 1.5 kHz; 0.1M/0.1W) | 90 ± 3 | dB |
| Resonant Frequency | 550 ± 20% | Hz |
| Frequency Range | Fo ~ 20k | Hz |
| THD | >5% | - |
| Frame Material | ABS | - |
| Magnet Material | NdFeB | - |
| Diaphragm Material | Treated Cloth | - |
| Weight | 7.6 | Grams |
| Buzz, Rattle, etc. | Should not be audible at 4.9V sine wave between 500 Hz ~ 5KHz | - |
| Environmental Compliances | ROHS/REACH | - |
| Polarity | When a positive DC Current is applied to the voice coil terminal marked +or red, the diaphragm shall move forward | - |
| Storage Temperature | -30 ~ 70 | °C |
| Operating Temperature | -20 ~ 60 | °C |

Measurement Method (0.1W, 10cm)



Typical Frequency Response (Temperature: 23 ~ 25 °C; Humidity: 55% max; Power: 0.1W, 10cm)

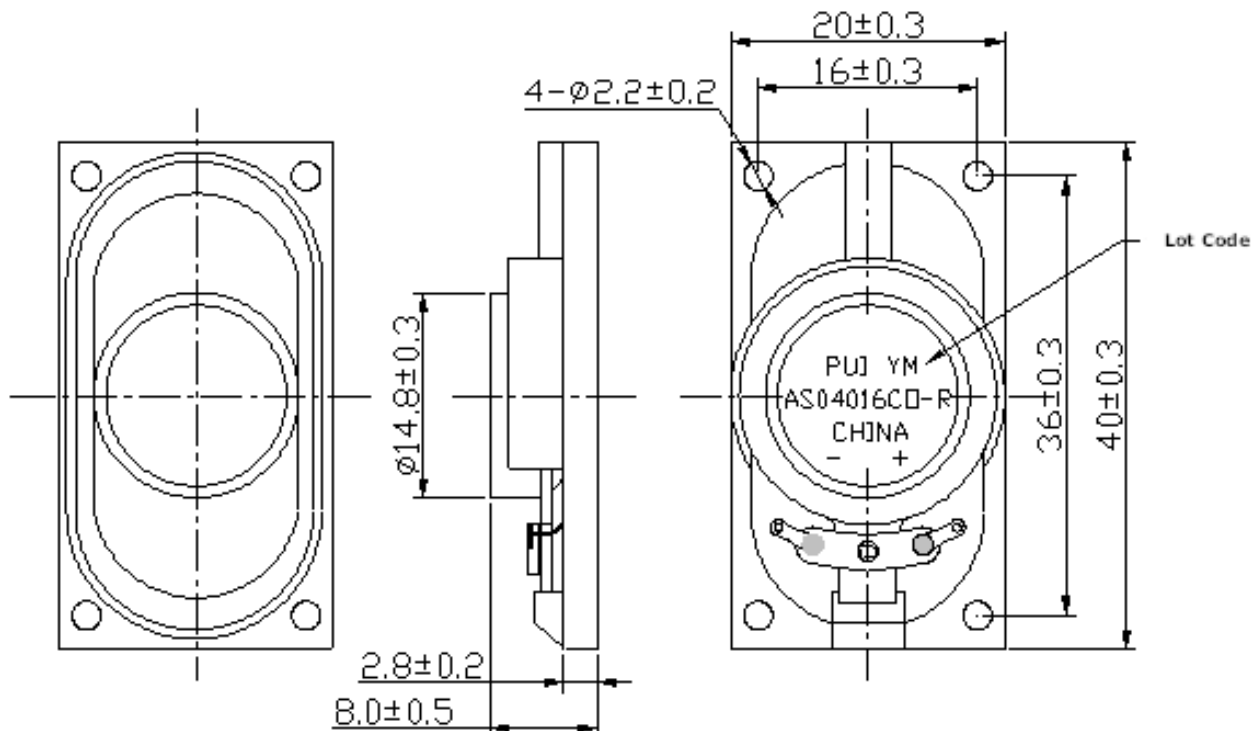


Reliability Testing

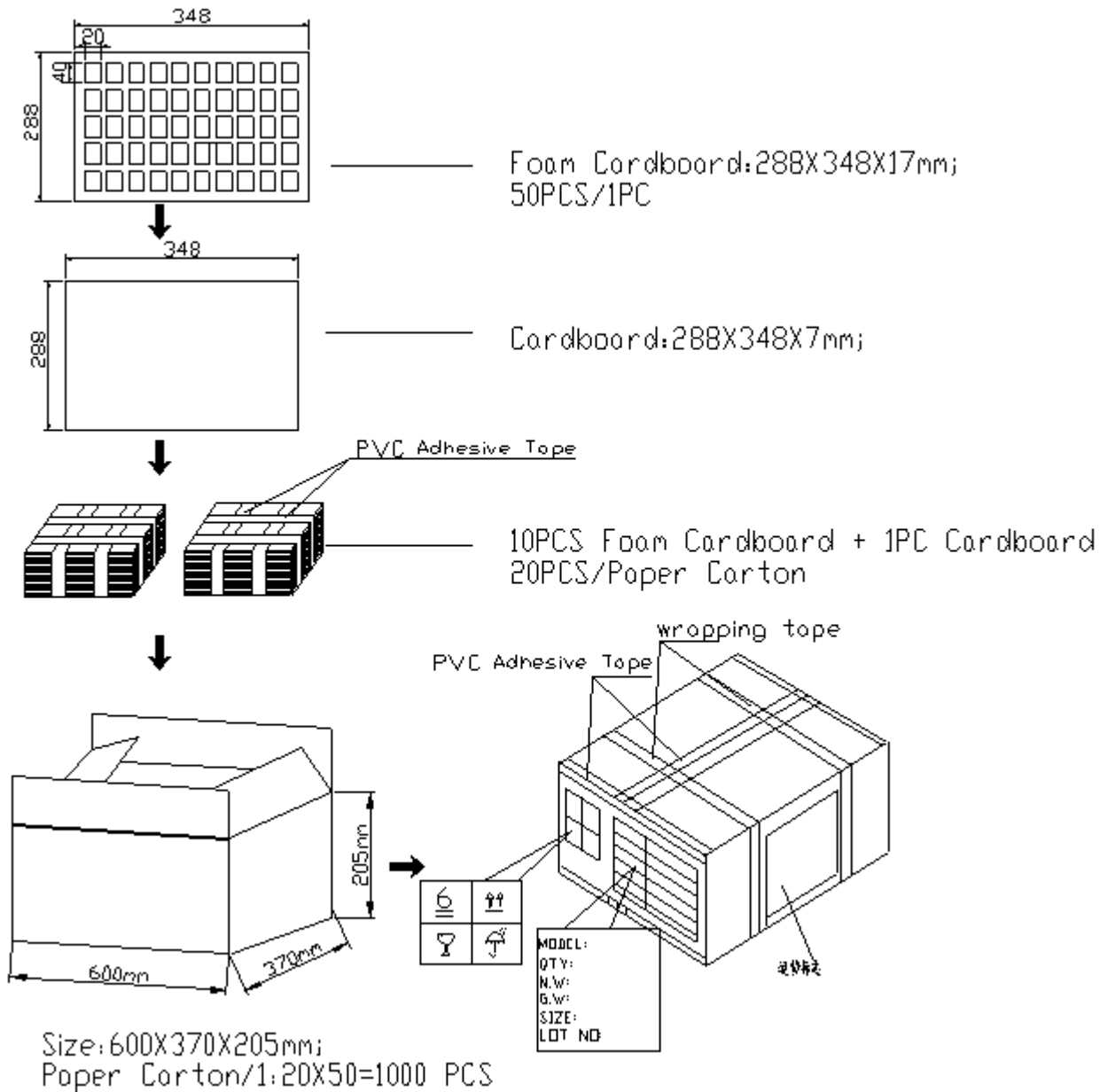
| Type of Test | Test Specifications |
|---------------------------|---|
| High Temperature Test | 96 hours at $70 \pm 3^\circ\text{C}$ and let rest for 3 hours in normal room temperature |
| Low Temperature Test | 96 hours at $-30 \pm 3^\circ\text{C}$ and let rest for 3 hours in normal room temperature |
| Humidity Test | 96 hours at $40 \pm 3^\circ\text{C}$ with relative humidity at 90 ~ 95% and let rest for 3 hours in normal room temperature |
| Temperature Cycle Testing | Low temperature: $-30^\circ\text{C} \pm 3^\circ\text{C}$, temperature: $+70^\circ\text{C} \pm 3^\circ\text{C}$, 1 cycle total 5 cycles and then keep 6 hours in normal room temperature |
| Vibration Test | 10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours. |
| Shock Test | If applicable, describe conditions of test. |
| Drop Test | Free drop from 100cm height to a board of 20mm thick x, y, z 6 direction. 1 time each, total 6 times. |
| Load Test | Rated Power white noise is applied for 96 hours |

After these tests, the change of S.P.L shall be within ± 3 dB

Dimensions (Terminal on right side of fiber board is positive +)



Packaging



Specifications Revisions

| Revision | Description | Date |
|----------|---------------------------|------------|
| A | Released from Engineering | 07/07/2015 |

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.
- Speaker cone has been treated for water resistance.