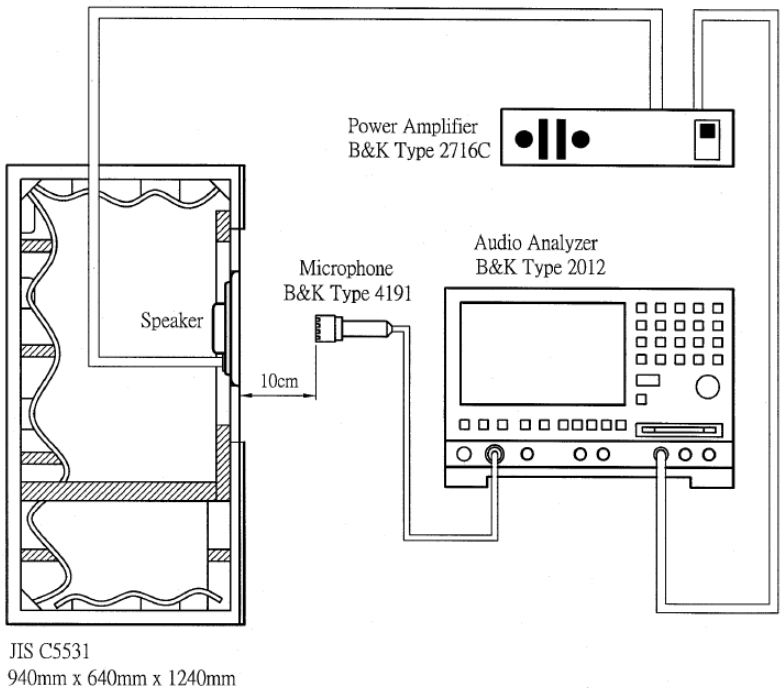
| Data Sheet | AST-01508MR-WT-R |
|---|---|

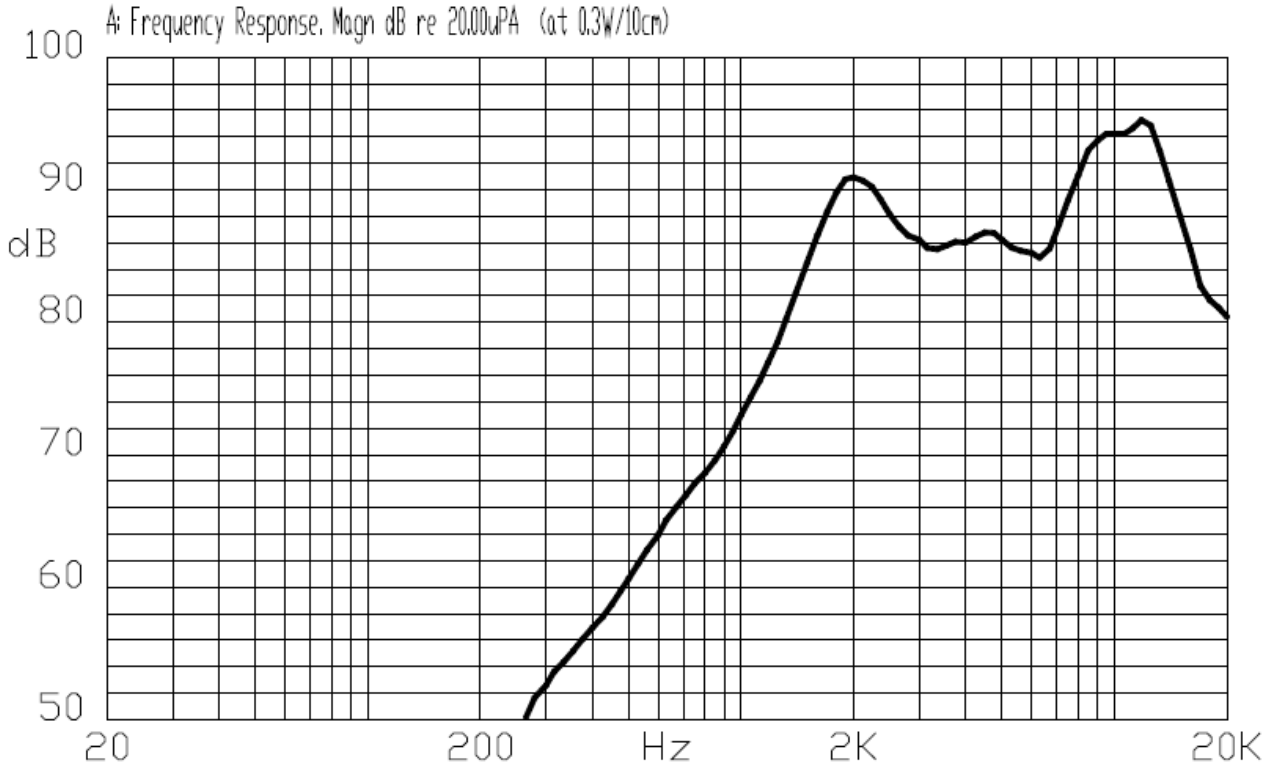
## Specifications

| Parameters | Values | Units |
|---|---|---|
| Rated Input Power | 0.3 | Watts |
| Max Input Power | 0.5 | Watts |
| Impedance | 8 ± 15% | Ohms |
| Output SPL *(Avg @ 2.0k, 2.5k, 3.0k, 4.0k Hz, 1W/10cm)* | 93 ± 3 | dB |
| Resonant Frequency | 1,700 ± 20% | Hz |
| Frequency Range | 1,700 ~ 20,000 | Hz |
| THD | 5% Max | |
| Frame Material | PBT | - |
| Magnet Material | NdFeB | - |
| Diaphragm Material | Mylar | - |
| Weight | 1.8 | Grams |
| Acceptable Soldering Methods | Hand Solder, Wave Solder, Reflow Solder *(list applicable)* | See page 3 for soldering information |
| Buzz, Rattle, etc. | Not audible at 1.55V sine wave between 1.7 kHz ~ 20kHz | - |
| Environmental Compliances | ROHS/REACH | - |
| Storage Temperature | -20 ~ 55 | °C |
| Operating Temperature | -20 ~ 55 | °C |

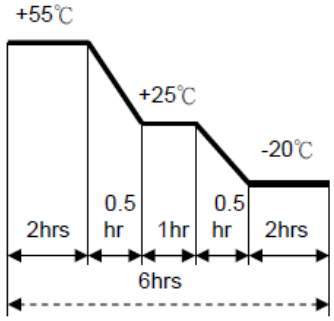
## Measurement Method (0.3W/10cm)




## Typical Frequency Response (list test conditions here)

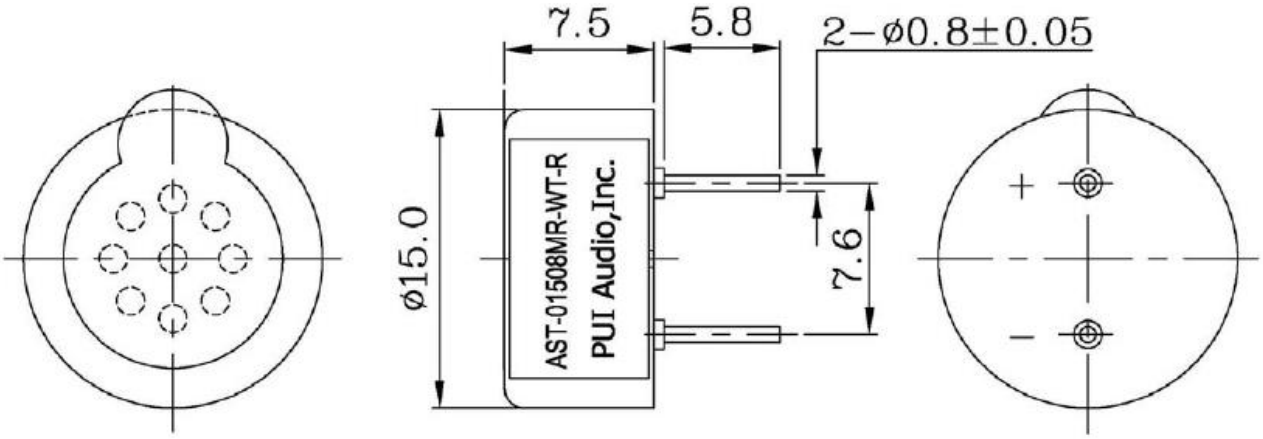


## Reliability Testing

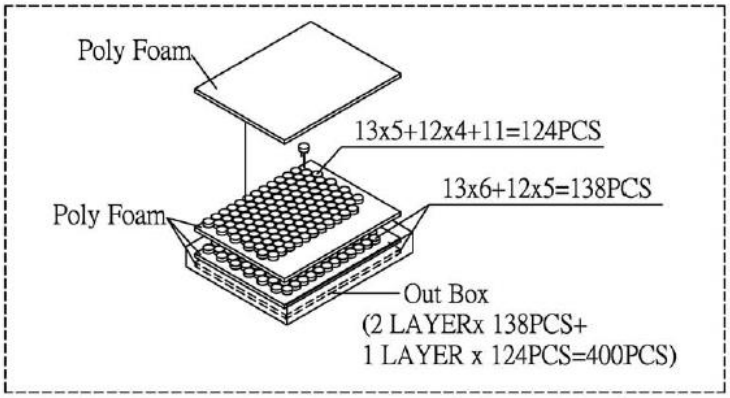
| Type of Test | Test Specifications |
|---|---|
| High Temperature Test | 96 hours at 55°C |
| Low Temperature Test | 96 hours at -20°C |
| Humidity Test | 96 hours at 40°C with relative humidity at 90±5% |
| Temperature Cycle Testing | Run for 5 cycles with each cycle consisting of:   |
| Vibration Test | Amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours |
| Drop Test | Drop the speakers contained in a normal box onto the board 40mm thick 10 times from a height of 75cm |
| Load Test | 0.3W white noise is applied for 24 hours at room temp |

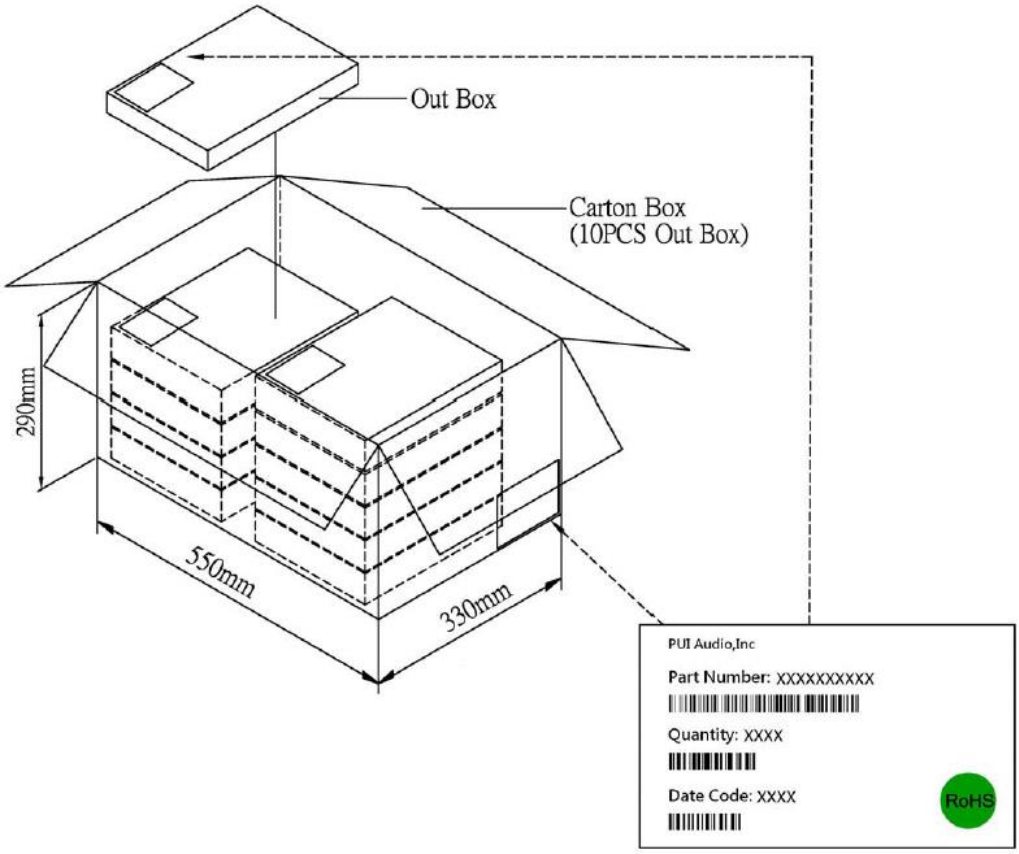
**After each test let the part rest for 6 hours, then the change in SPL shall be within ±3dB**

## Dimensions



# Packaging




| | | |
|---|---|---|
| Out Box | 310mmx248mmx49mm | 1x400PCS=400PCS |
| Carton Box | 550mmx330mmx290mm | 400PCSx10=4,000PCS |

**Specifications Revisions**

| Revision | Description | Date | Approved |
|---|---|---|---|
| A | Released from Engineering | 2/20/17 | M.V. |

Note:

1. Unless otherwise specified:
   A. All dimensions are in millimeters.
   B. Default tolerances are ±0.5mm and angles are ±3°.
2. Specifications subject to change or withdrawal without notice.