



PUIaudio

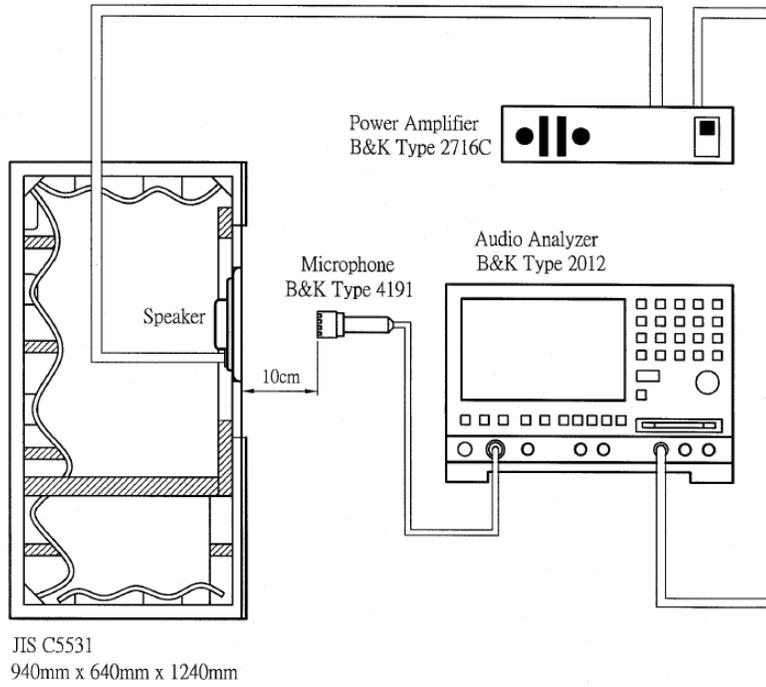
Data Sheet

AST-01508MR-WT-R

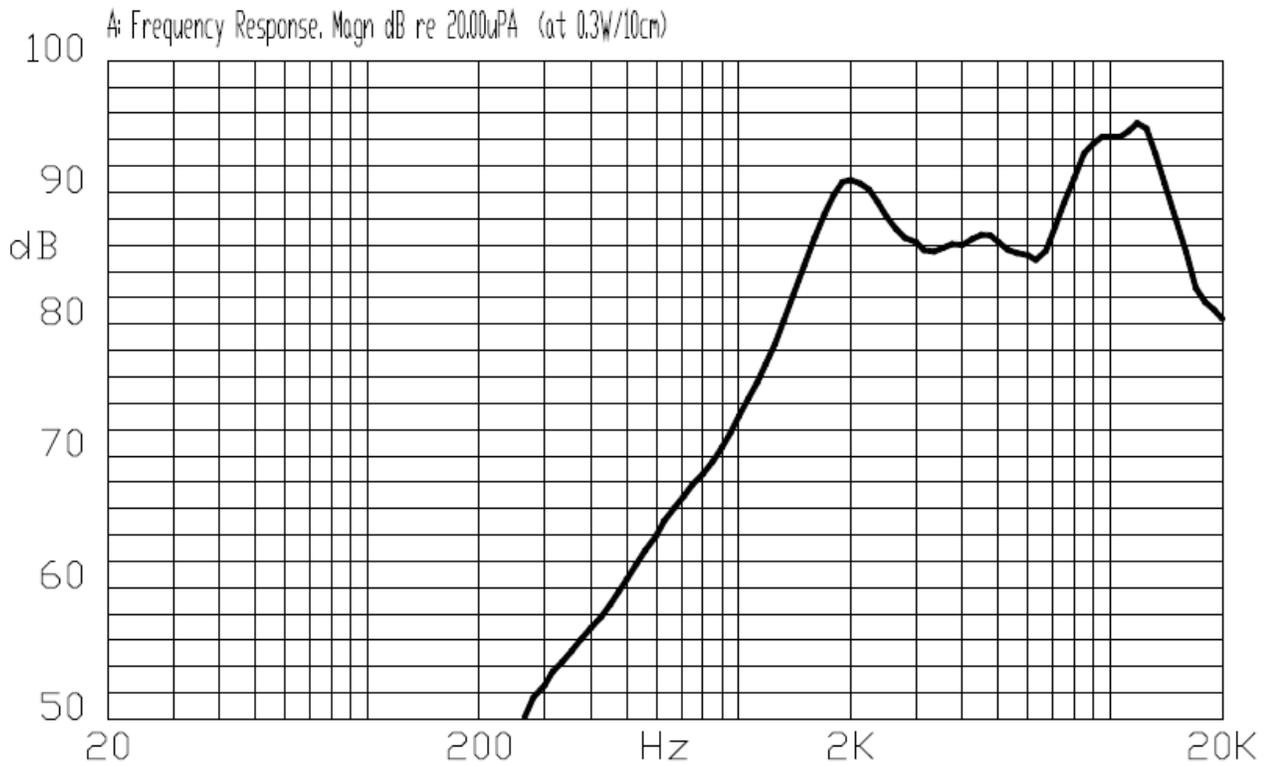
Specifications

Parameters	Values	Units
Rated Input Power	0.3	Watts
Max Input Power	0.5	Watts
Impedance	8 ± 15%	Ohms
Output SPL (<i>Avg @ 2.0k, 2.5k, 3.0k, 4.0k Hz, 1W/10cm</i>)	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 (<i>list applicable</i>)	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

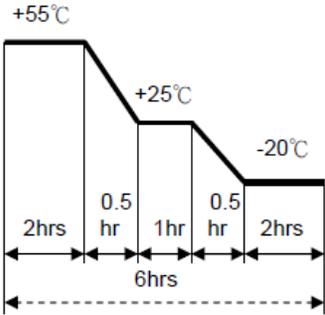
Measurement Method (0.3W/10cm)



Typical Frequency Response (list test conditions here)

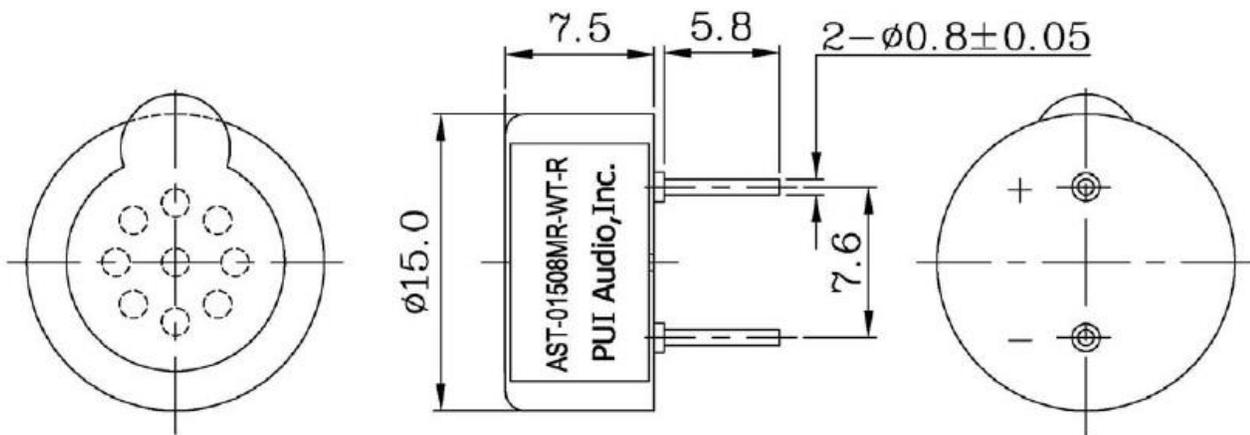


Reliability Testing

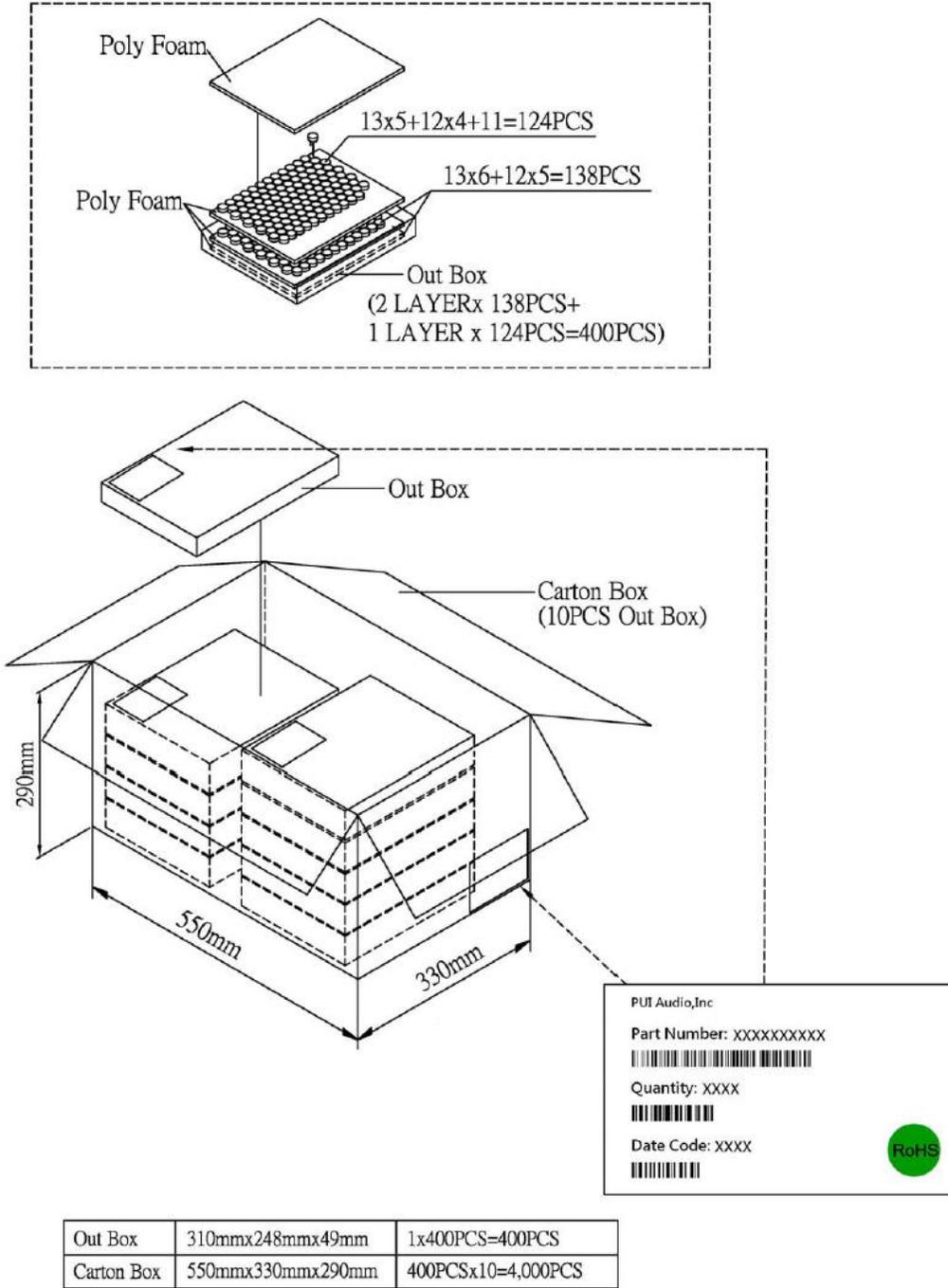
Type of Test	Test Specifications
High Temperature Test	96 hours at 55°C
Low Temperature Test	96 hours at -20°C
Humidity Test	96 hours at 40°C with relative humidity at 90±5%
Temperature Cycle Testing	Run for 5 cycles with each cycle consisting of: 
Vibration Test	Amplitude of 1.5mm with 10 to 55 Hz band 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



Specifications Revisions

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

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.