



PUIaudio



Data Sheet

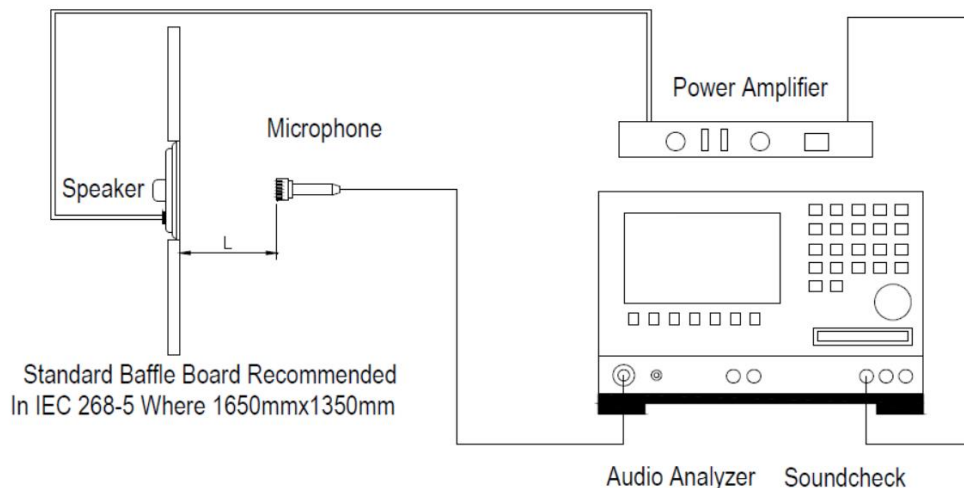
AS01508MR-6-R

- 15mm overall diameter speaker with Neodymium magnet for 88dB sensitivity
- 1.2W continuous, 1.8W maximum power handling and 8Ω impedance
- Mylar Cone, integrated grill screen, and pre-applied 2-sided tape for quick mounting

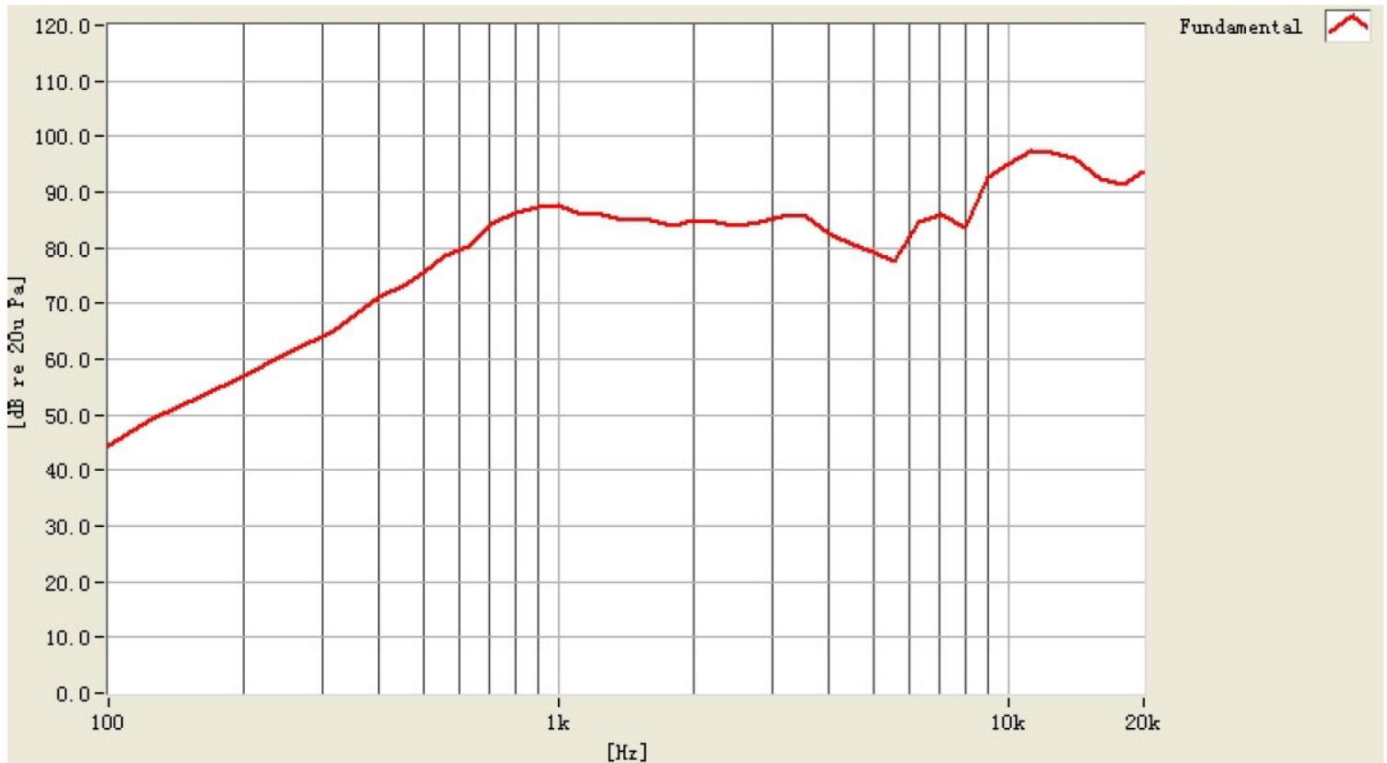
Specifications

Parameters	Values	Units
Rated Input Power	1.2	Watts
Max Input Power	1.8	Watts
Impedance	8 ± 15%	Ohms
Output SPL (<i>Avg. @ 0.8, 1.0, 1.2, 1.5kHz; 0.1W/10cm</i>)	88 ± 3	dB
Resonant Frequency	900 ± 20%	Hz
Frequency Range	F _o ~ 20,000	Hz
THD (1kHz, 0.1W)	<5%	-
Diaphragm Material	Mylar	-
Magnet Material	NdFeB	-
Frame Material	ABS	-
Weight	1.5	Grams
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-40 ~ 80	°C
Operating Temperature	-30 ~ 70	°C

Measurement Method (0.1W, L=10cm)



Typical Frequency Response (0.1W, 10cm)

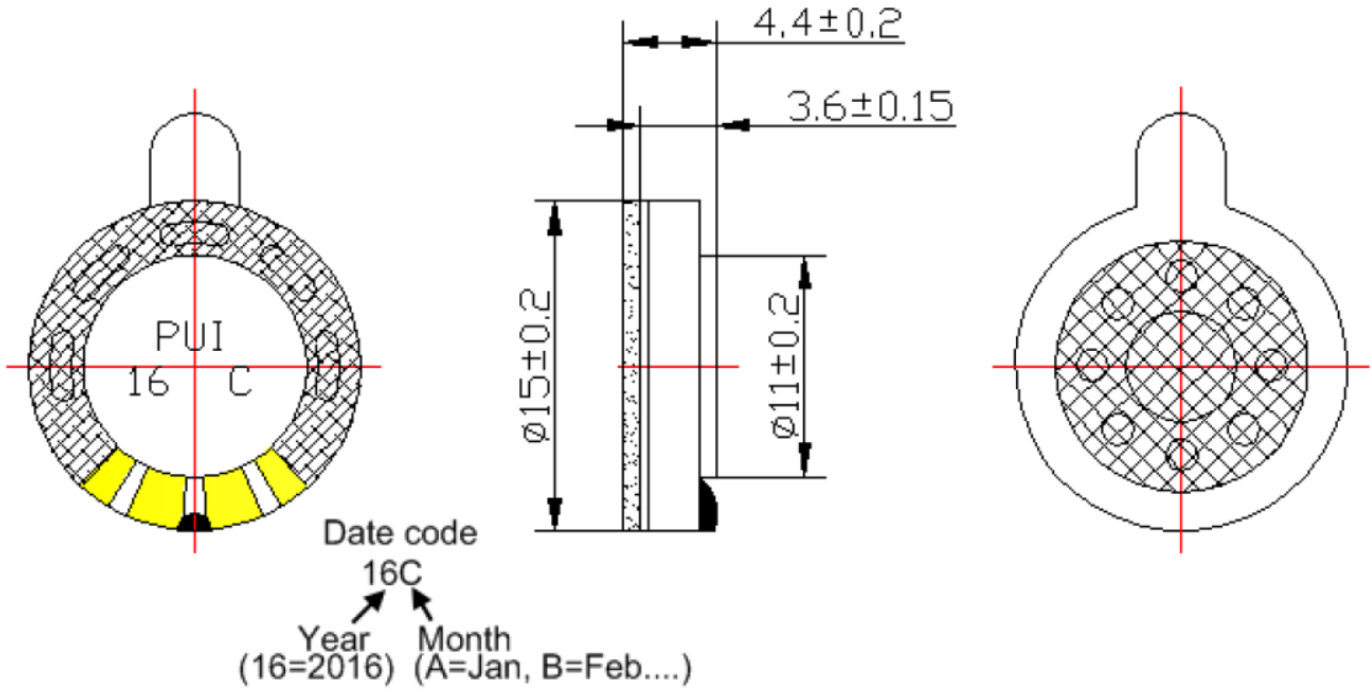


Reliability Testing

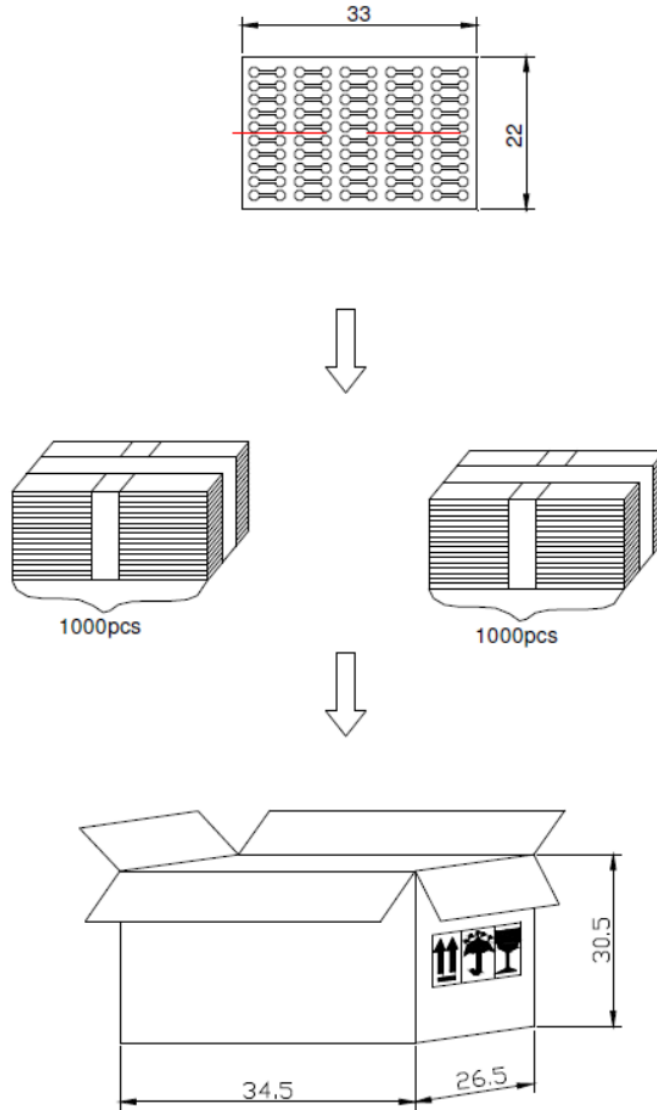
Type of Test	Test Specifications
High Temperature Test	96 hours at 80°C
Low Temperature Test	96 hours at -40°C
Humidity Test	96 hours at 40°C, 95% RH
Temperature Humidity Cycle Testing	Run for 5 cycles with each cycle consisting of:
Vibration Test	10-55-10Hz Sine-Wave Sweep 15min. 5G (constant) X/Y/Z 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 X/Y/Z direction 2 times each, total 6 times

After each test the part shall be within $\pm 3\text{dB}$ of initial SPL.

Dimensions



Packaging



Specifications Revisions

Revision	Description	Date
-	Released from Engineering	12/31/2007
A	Revised Height Dimension	2/5/2009
B	Revised to Inventor 3D Template	2/6/2009
C	Revised THD and Frequency Range Parameters	5/19/2023

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.