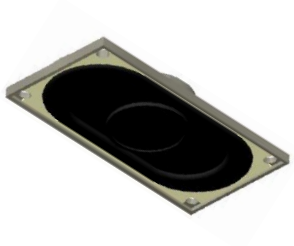
PUIaudio



Data Sheet	AS04008CO-R

Features:

- 40mm x 20mm x 5.8mm rectangular shape
- 8 Ω impedance, 2 W rated input power

Specifications

Parameters	Values	Units
Rated Input Power	2	Watts
Max Input Power	3	Watts
Impedance	8 ± 15%	Ohms
Output SPL at 1W/50cm (At 0.8, 1.0, 1.2, 1.5 kHz)	83 ± 3	dB
Resonant Frequency (Without Baffle)	500 ± 20%	Hz
Frequency Range	200 ~ 20,000	Hz
THD (1W, 1kHz input)	< 5%	-
Frame Material	Metal	-
Magnet Material	NdFeB	-
Diaphragm Material	Cloth	-
Weight	7.6	Grams
Acceptable Soldering Methods	Hand Solder	-
Polarity	Cone will move forward with positive (+) DC current applied to positive terminal	-
Storage Temperature	-30 ~ +70	°C
Operating Temperature	-20 ~ +60	°C
Environmental Compliances	ROHS/REACH	-

Measurement Method

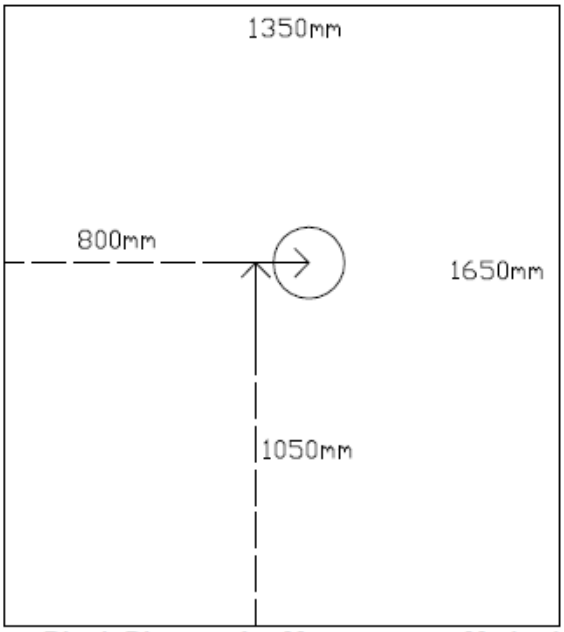
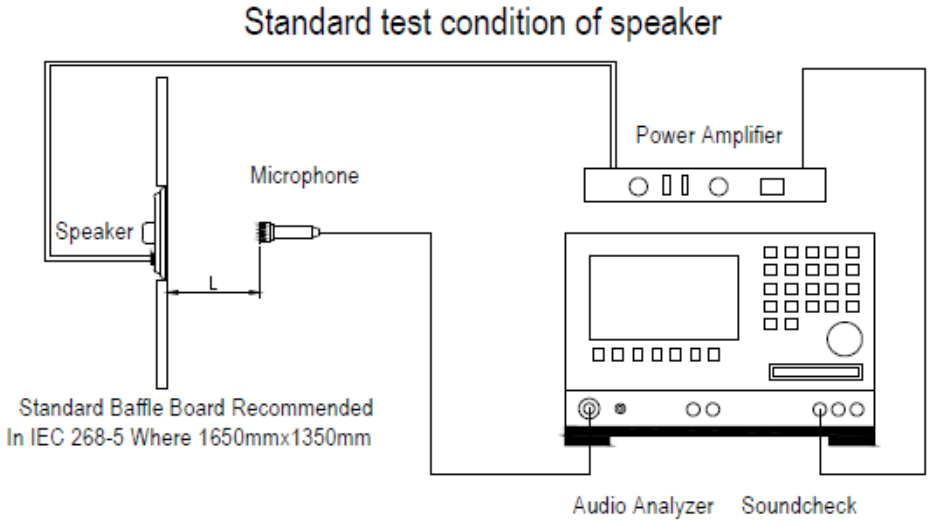
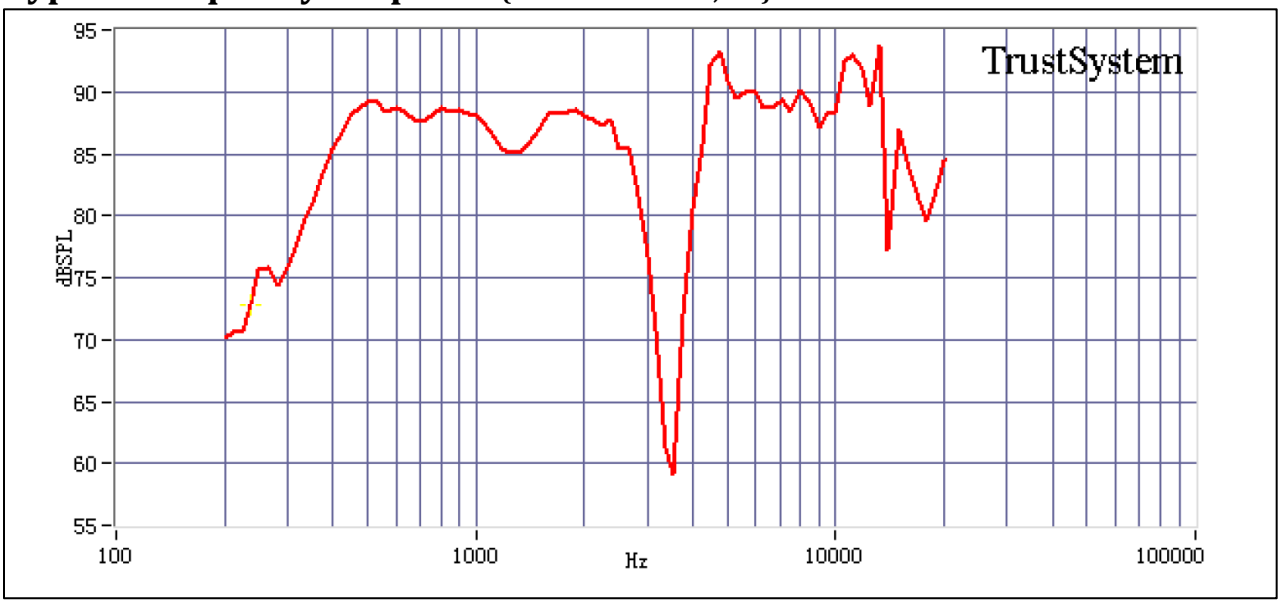


Fig. 1 Block Diagram for Measurement Method



L=50cm

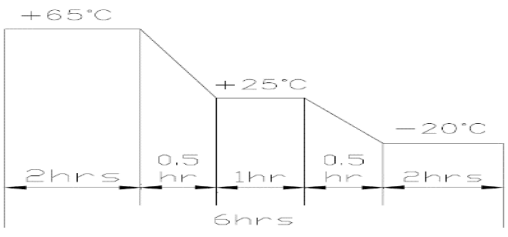
Typical Frequency Response (Measured at 50cm, 1W)



Typical Thiele-Small Parameters (based on Golden Sample, up to 20% variance is normal)

Specification	Value	Description
Re	7.4 Ω	DC resistance
Le		Inductance @ 10 kHz
Fs	405.442 Hz	Resonant Frequency
Mms	110.258 mg	Moving Mass
Bl	574.293 Tm	Magnet Force Factor
Qms	3.261	Mechanical Q-factor
Qes	6.302	Electrical Q-factor
Qts	2.149	Total Q-factor
Vas	.039798 l	Equivalent Air Volume of Suspension
Xmax		One-Way Voice Coil Travel

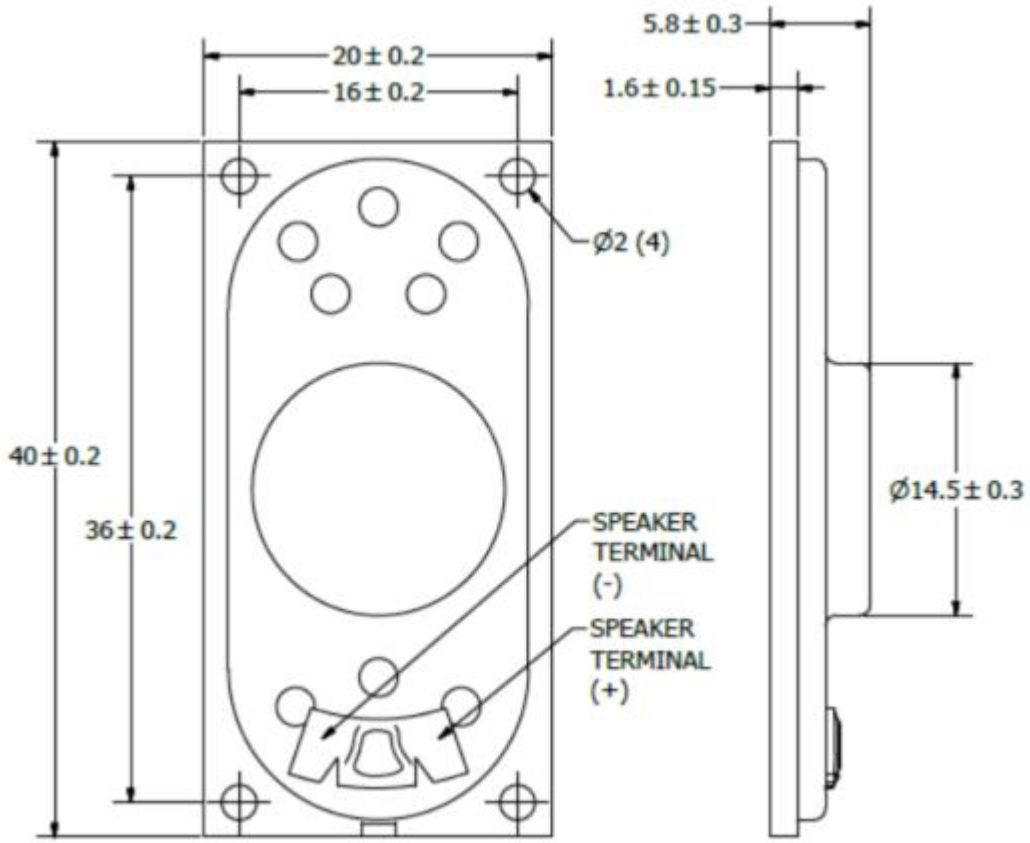
Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at +65°C ± 3°C with random humidity
Low Temperature Test	96 hours at -20°C ± 3°C with random humidity
Humidity Test	48 hours at +40°C ± 3°C with relative humidity between 90~95%
Temperature Cycle Testing	Part subjected to 5 cycles 

Vibration Test	30 ± 15 Hz, 1.5mm amplitude vibration applied for 3 hours
Drop Test	100cm free fall onto concrete floor, 2 times
Load Test	White-noise source at rated power applied for 96 hours
Terminal Strength Test	3.0N (0.306kg) horizontal force applied for 10 seconds 2.0N (0.204kg) vertical force applied for 10 seconds

After any of the above tests, part should conform to the original performance within ±3dB with rated power, after a recovery period of 6 hours.

Dimensions (Positive terminal indicated by "+" marking)



Specifications Revisions

Revision	Description	Date
-	RELEASED FROM ENGINEERING	2/21/2006
A	REVISED POWER RATINGS, SPL & FREQ	3/6/2006
B	REVISED TO INVENTOR 3D DRAWING TEMPLATE	12/22/2008
C	REVISED RESONANT FREQUENCY	9/25/2012

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.
3. This part is ROHS 2015/863/EU compliant.