



**pui**  
**audio**™ inc  
a projects unlimited company

## AS03608MR-4-R 36mm Speaker

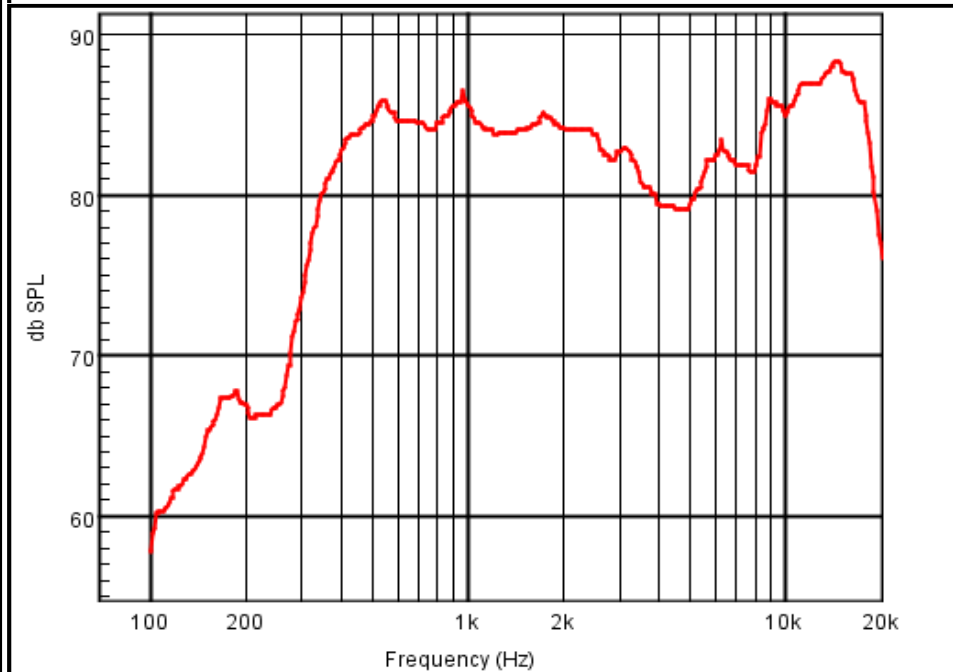


3541 Stop Eight Road • Dayton, Ohio 45414

### Product Overview

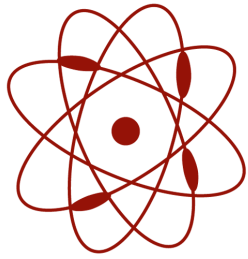
- 36mm diameter speaker with Neodymium magnet for 85 dB sensitivity
- 0.5W continuous, 1W maximum power handling and 8Ω impedance
- Mylar cone for linear frequency response and moisture resistance
- Less than 5mm (1/4") thick for space-limited applications

Frequency Response (1W @ 0.5 meter)



RoHS Compliant





**pui**  
**audio**™ inc  
a projects unlimited company

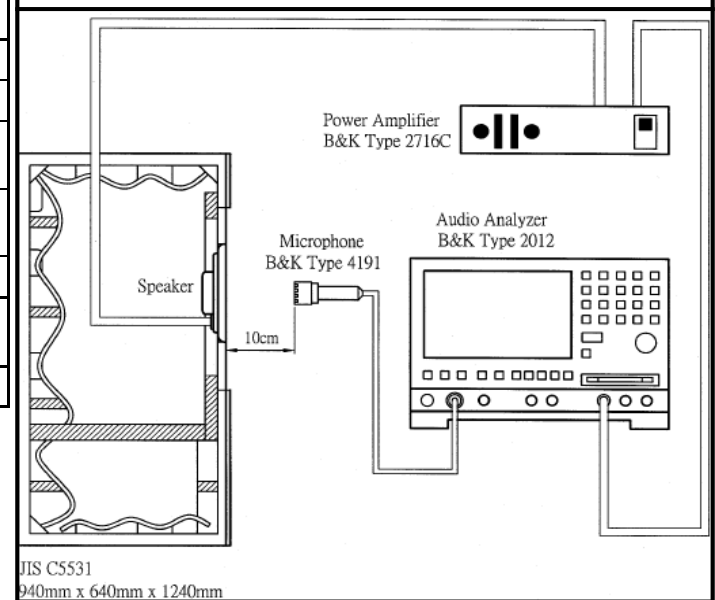
## AS03608MR-4-R 36mm Speaker

### Mechanical and Environment Testing

Test Description	Test Condition
High Temperature	60°C with random humidity for 96 hours
Low Temperature	-30°C with random humidity for 96 hours
Humidity	40°C with 90% to 95% relative humidity for 96 hours
Power Test	1W white noise signal for 96 hours
Drop Test	75 cm free fall onto 5 mm thick board, 10 cycles
Temperature Cycle Test	-25°C to 60°C, five 60 minute cycles

After tests, speaker shall rest for 1 hours. SPL shall not deviate  $\pm 3$  dB from pre-test measurement.

### Frequency Response Measurement Setup



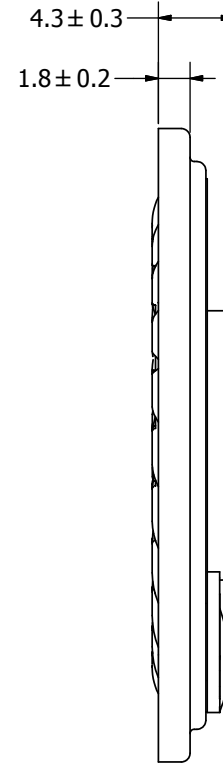
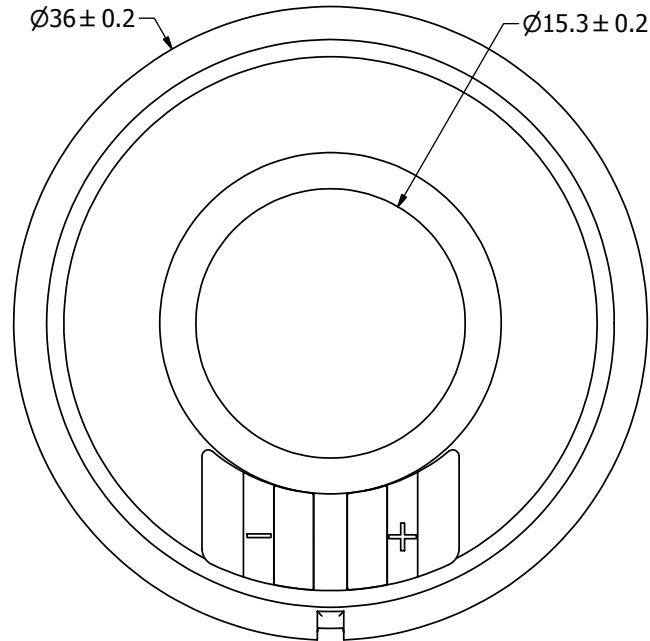
## SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED INPUT POWER	0.8	W
MAX INPUT POWER	1	W
IMPEDANCE	8 ± 15%	OHM
OUTPUT SPL @ 1W/0.5M (AT 0.6, 0.8, 1.0, 1.2 kHz)	85 ± 3	dB(A)
DISTORTION (MAX.)	5%	-
RESONANT FREQUENCY	450 ± 20%	Hz
FREQUENCY RANGE	450 ~ 20,000	Hz
HOUSING MATERIAL	METAL	-
CONE MATERIAL	MYLAR	-
MAGNET MATERIAL	N35	-
OPERATING TEMPERATURE	-20 ~ +50	°C
WEIGHT	8.5	grams

THIS DOCUMENT CONTAINS DATA PROPRIETARY TO PROJECTS UNLIMITED, INC. ANY USE OR REPRODUCTION, IN ANY FORM, WITHOUT PRIOR WRITTEN PERMISSION OF PROJECTS UNLIMITED, INC. IS PROHIBITED.  
©2003, Projects Unlimited Inc.

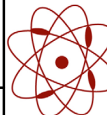
## REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	5/10/2006	
A	REVISED HEIGHT DIMENSION	3/16/2007	R.W.
B	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	12/3/2008	B.R.
C	REVISED OUTPUT SPL DISTANCE kHz	11/11/2011	M.L.



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS, TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.	SIZE <b>A3</b>	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
		J.D.	5/10/2006	E.P.	5/10/2006	B.R.	5/10/2006	12/3/2008
 <b>pui audio</b> <small>a projects unlimited company</small>		<b>AS03608MR-4-R</b>						
		Speaker				Edition		Sheet
AS03608MR-4-R.idw						-		1 / 1