

## AS04004PO-2-R 40 x 28.5mm Speaker

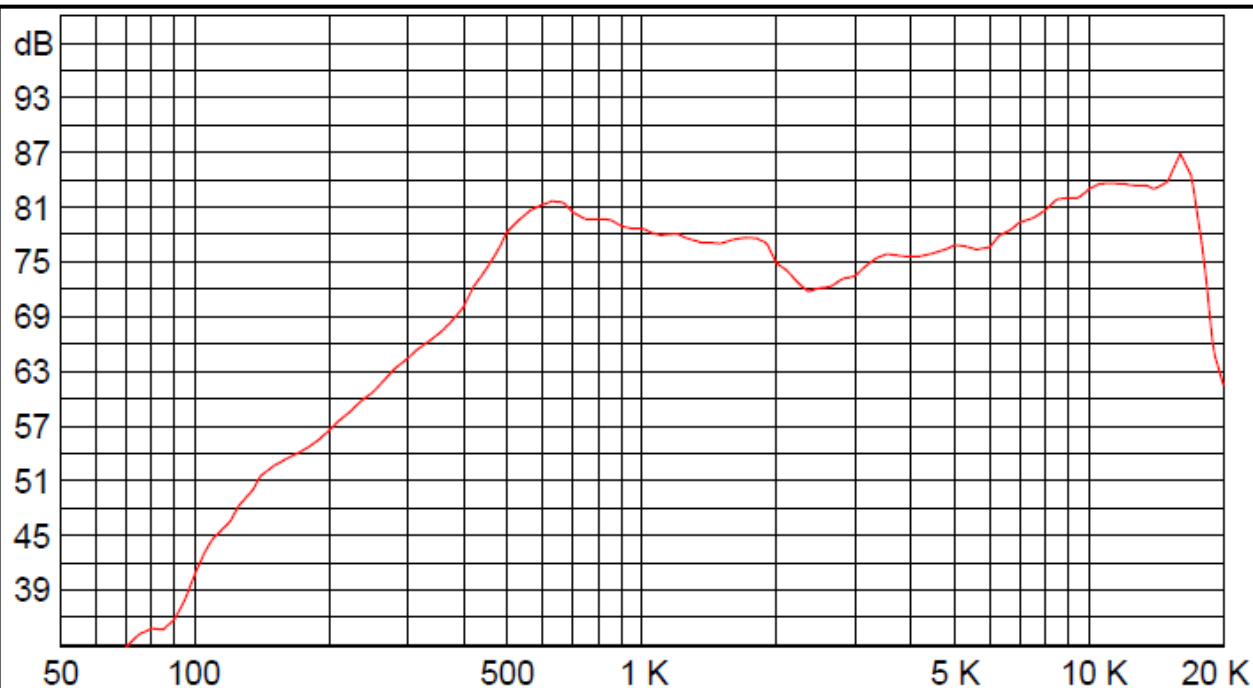
3541 Stop Eight Road • Dayton, Ohio 45414

### Product Overview

- 40 x 28.5mm oval speaker with Neodymium magnet for 82 dB sensitivity
- 3W continuous, 4W maximum power handling and 4Ω impedance
- Paper cone with cloth surround for durability and natural sound

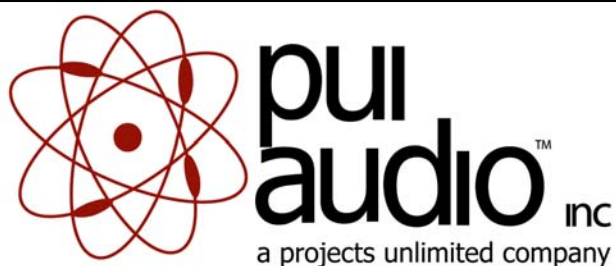


Frequency Response (1W @ 0.5 meters)



Audio Products Division





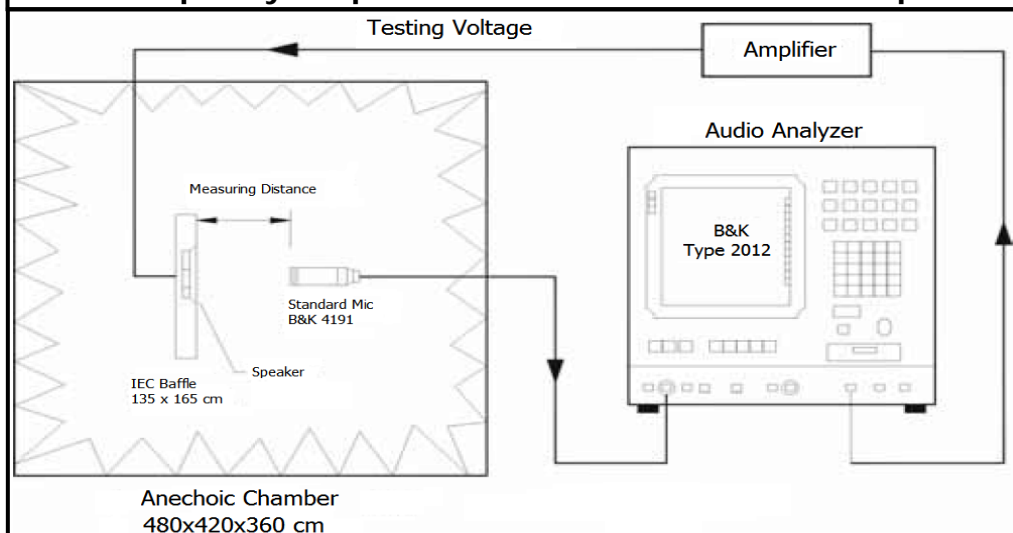
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### Mechanical and Environment Testing

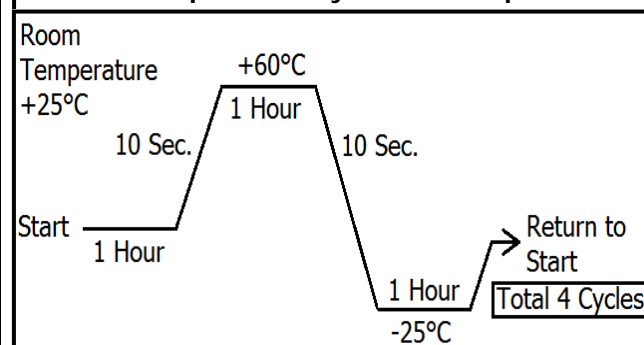
Test Description	Test Condition
High Temperature	60°C $\pm$ 2°C with random humidity for 96 hours
Low Temperature	-25°C $\pm$ 2°C with random humidity for 96 hours
Humidity	40°C with 90% to 95% relative humidity for 96 hours
Vibration	1.5 mm movement modulated at 10 to 55 Hz for 2 hours
Drop Test	75 cm free fall onto concrete floor, 10 cycles
Temperature Cycle Test	-25°C to 60°C, 4 cycles (refer to Temperature Cycle Test Graph)

After tests, speaker shall rest for 1 hours. SPL shall not deviate  $\pm$  4 dB from pre-test measurement.

### Frequency Response and SPL Measurement Setup



### Temperature Cycle Test Graph



### Thiele-Small Parameters

Specification	AS04004PO-2-R
Fo (Hz)	466
Qes	4.509
Qms	4.414
Qts	2.231
Vas (mm <sup>3</sup> )	19.2k
Sd (mm <sup>2</sup> )	599
Mms (g)	0.309
Xmax (mm)	0.6
Re (ohm)	4.26
SPL (dB) @ 1W/1m	78.09
BL (T)	0.925

## SPECIFICATIONS

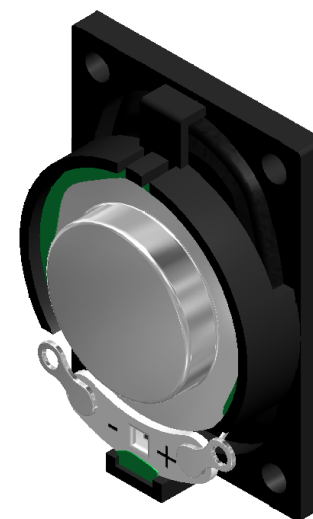
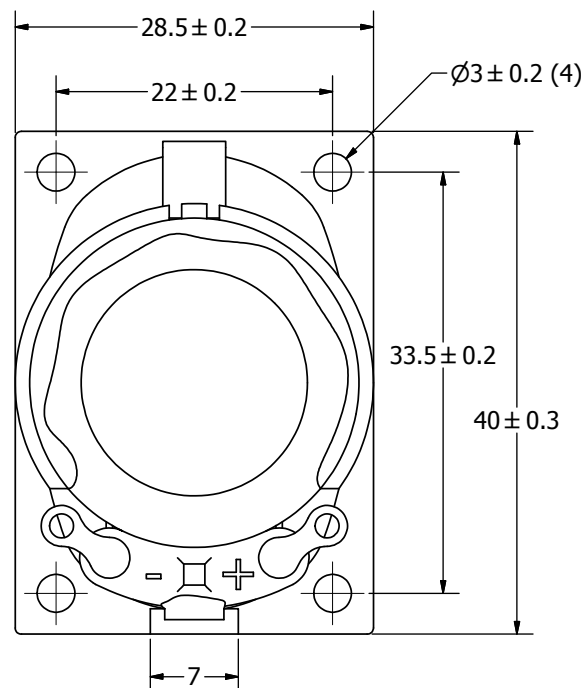
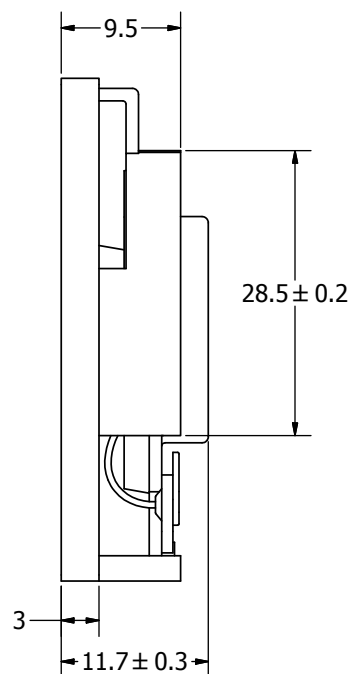
PARAMETERS	VALUES	UNITS
RATED INPUT POWER	3	W
MAX INPUT POWER	4	W
IMPEDANCE	4 ± 15%	OHM
OUTPUT SPL @ 1W/0.5M (AT 0.6, 0.8, 1.0, 1.2 kHz)	82 ± 3	dBA
DISTORTION (MAX.)	5%	-
RESONANT FREQUENCY	420 ± 20%	Hz
FREQUENCY RANGE	200 ~ 20,000	Hz
HOUSING MATERIAL	ABS	-
CONE MATERIAL	PAPER	-
MAGNET MATERIAL	RARE EARTH	-
OPERATING TEMPERATURE	-10 ~ +55	°C
WEIGHT	11.9	grams

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## REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	12/7/2005	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	4/9/2008	B.R.
B	REVISED PART HEIGHT	3/25/2011	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	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
		J.A.F.	12/6/2005	B.R.	12/7/2005	E.P.	12/7/2005	4/9/2008
	A3	 <b>pui audio</b> <sup>TM</sup> inc <small>a projects unlimited company</small>		AS04004PO-2-R				
				Speaker				
				Edition		Sheet		
AS04004PO-2-R.idw							-	1 / 1



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