

AS04008PS-4W-WR-R 40 x 28mm Speaker

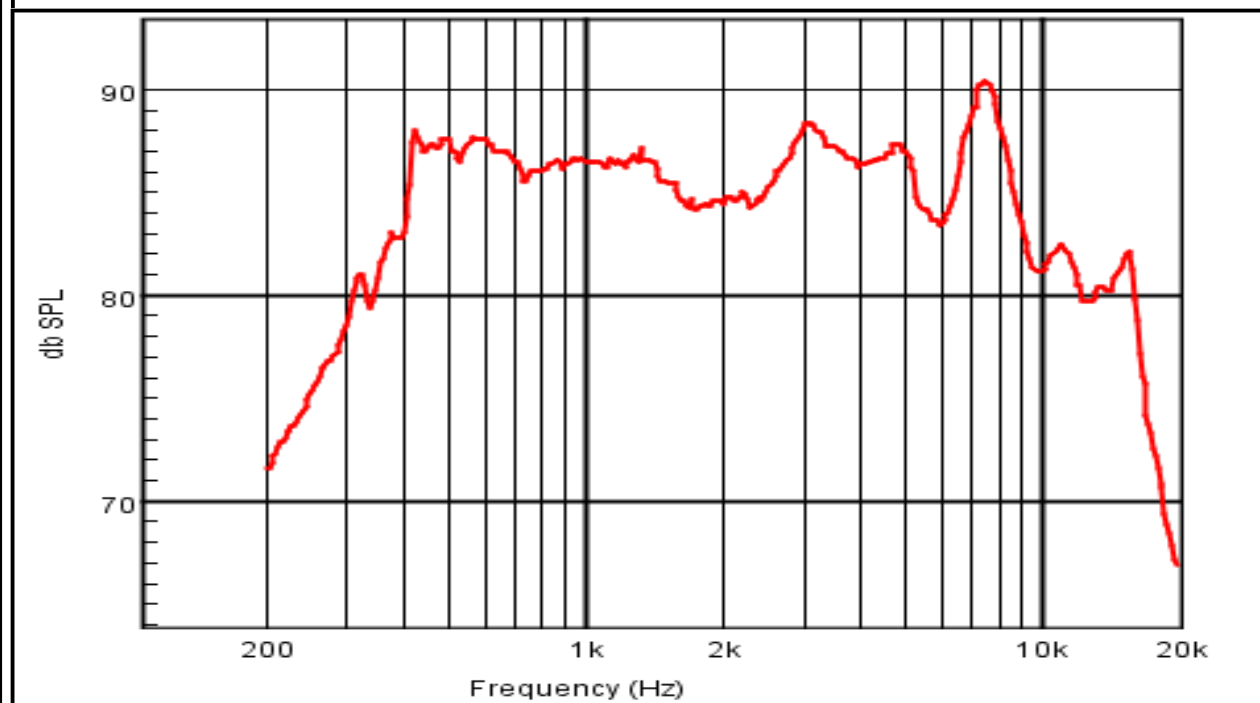
3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

- 40 x 20mm oval speaker with Neodymium magnet
- 84 dB sensitivity (1W/0.5m)
- 2W continuous, 4W maximum power handling and 8Ω impedance
- Good for music and vocal reproduction; water-resistant cone

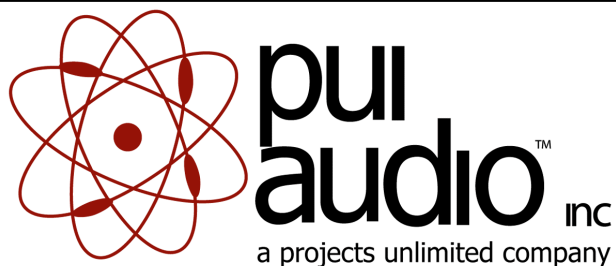


Frequency Response (1W @ 0.5 meters)



Audio Products of the CFSI Group





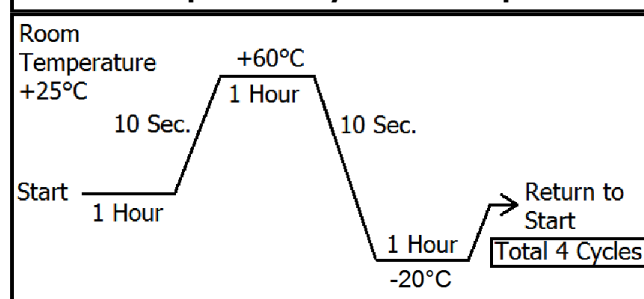
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Mechanical and Environment Testing

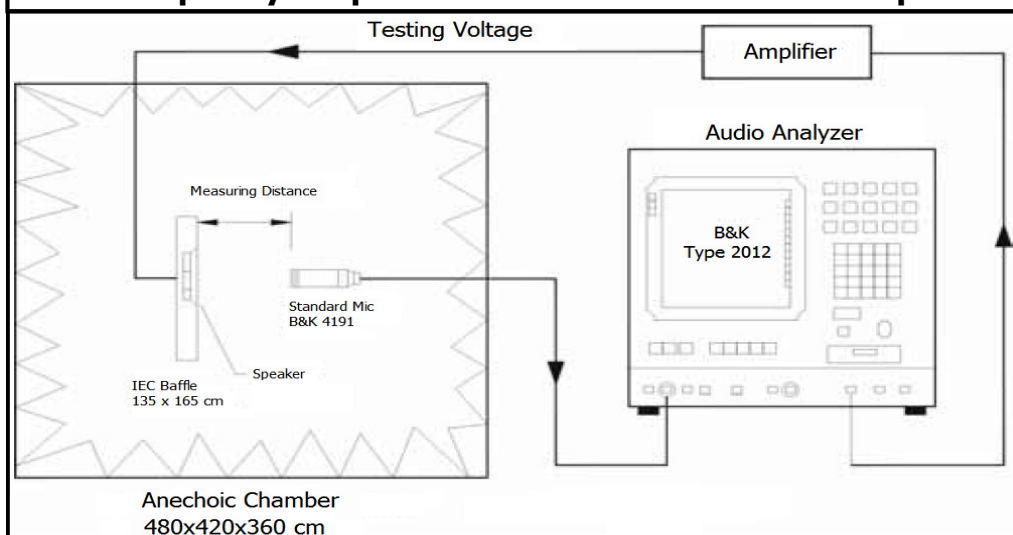
Test Description	Test Condition
High Temperature	60°C \pm 2°C with random humidity for 96 hours
Low Temperature	-20°C \pm 2°C with random humidity for 96 hours
Humidity	40°C with 90% to 95% relative humidity for 96 hours
Vibration	5G constant movement modulated at 10 to 55 Hz for 2 hours each of 3 axis
Drop Test	100 cm free fall onto 20mm thick board, 6 cycles
Temperature Cycle Test	-20°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.

Temperature Cycle Test Graph



Frequency Response and SPL Measurement Setup



Thiele-Small Parameters

Specification	Value
Fo (Hz)	380
Qes	3.65
Qms	1.44
Qts	1.03
Vas (mm ³)	17.32k
Sd (mm ²)	600
Mms (g)	0.389
Re (ohm)	7.4
BL (T)	1.32

SPECIFICATIONS

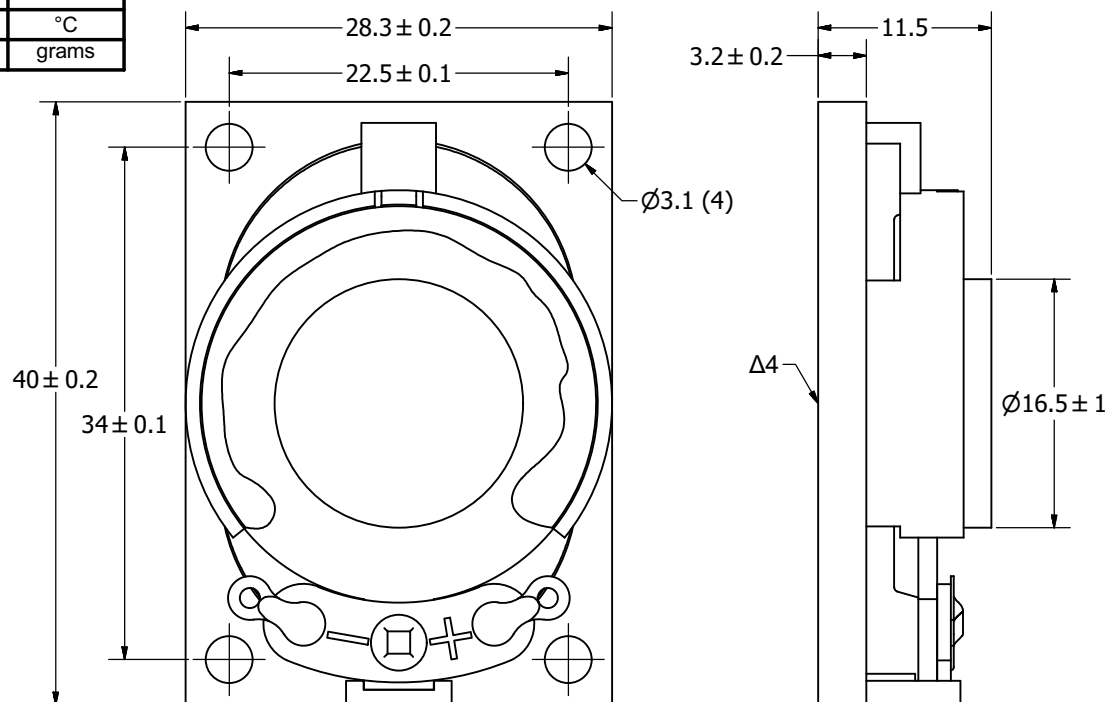
PARAMETERS	VALUES	UNITS
RATED INPUT POWER	2	W
MAX INPUT POWER	4	W
IMPEDANCE	$8 \pm 15\%$	OHM
OUTPUT SPL @ 1W/0.5M (AT 1.0, 1.2, 1.5, 2.0 kHz)	84 ± 3	dBa
DISTORTION (MAX.)	5%	-
RESONANT FREQUENCY	$380 \pm 20\%$	Hz
FREQUENCY RANGE	380 ~ 20,000	Hz
HOUSING MATERIAL	ABS	-
CONE MATERIAL	TREATED PAPER	-
MAGNET MATERIAL	Nd-Fe-B	-
OPERATING TEMPERATURE	-20 ~ +60	°C
WEIGHT	12	grams

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REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	9/25/2006	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	12/31/2008	B.R.
B	ADDED NOTE 5	8/12/2011	B.R.




NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
- THIS PART IS RoHS 2002/95/EC COMPLIANT.
- $\Delta 4$. CONE HAS BEEN TREATED FOR WATER RESISTANCE.
- BASE SPEAKER PUI# AS04008PS-4W-R.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS,
TOLERANCES ARE ± 0.5 AND ANGLES ARE $\pm 3^\circ$.

SIZE
A3

AS04008PS-4W-WR-R.idw

Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
J.D.	9/25/2006	B.R.	9/25/2006	R.W.	9/25/2006	12/31/2008
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						Edition: - Sheet: 1 / 1

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