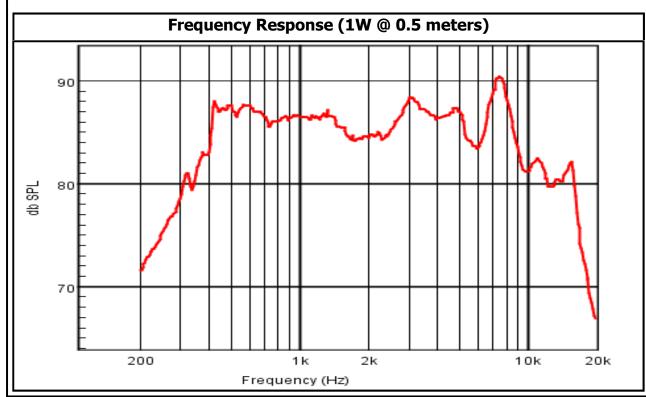


## **40 x 28mm Speaker**

3541 Stop Eight Road • Dayton, Ohio 45414

## **Product Overview**

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

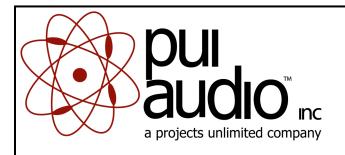








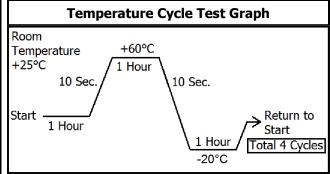




## **AS04008PS-4W-WR-R 40 x 28mm Speaker**

Mechanical and Environment Testing			
Test Description Test Condition			
High Temperature	60°C ±2°C with random humidity for 96 hours		
Low Temperature	-20°C ±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 ±4 dB from pre-test measurement.



Testing Voltage	Amplifier
VVVVV	Audio Analyzer
Measuring Distance  Standard Mic B&K 4191	B&K Type 2012
IEC Baffle Speaker 135 x 165 cm	0000000000

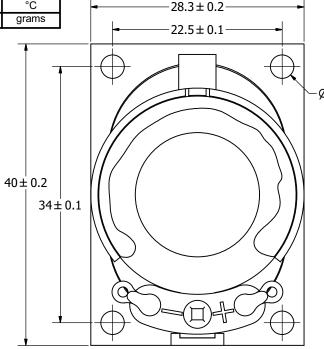
<b>Thiele-Small Parameters</b>		
Specification Value		
Fo (Hz)	380	
Qes	3.65	
Qms	1.44	
Qts	1.03	
Vas (mm^3)	17.32k	
Sd (mm <sup>2</sup> )	600	
Mms (g)	0.389	
Re (ohm)	7.4	
BL (T)	1.32	

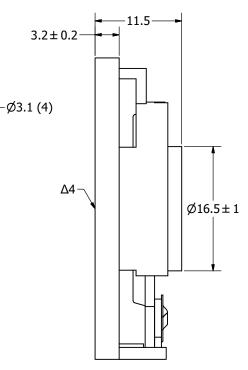
**SPECIFICATIONS PARAMETERS VALUES UNITS** RATED INPUT POWER W MAX INPUT POWER W 4 **IMPEDANCE** ОНМ 8 ± 15% OUTPUT SPL @ 1W/0.5M  $84 \pm 3$ dBA (AT 1.0, 1.2, 1.5, 2.0 kHz) DISTORTION (MAX.) 5% RESONANT FREQUENCY 380 ± 20% Hz FREQUENCY RANGE 380 ~ 20,000 Hz HOUSING MATERIAL ABS CONE MATERIAL TREATED 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		
Α	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	12/31/2008	B.R.	
В	ADDED NOTE 5	8/12/2011	B.R.	





Checked by

Date



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.

2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.

3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

Δ4. CONE HAS BEEN TREATED FOR WATER RESISTANCE.

5. BASE SPEAKER PUI# AS04008PS-4W-R.

UNLESS OTHERWISE		Designed by
SPECIFIED: DIMENSIONS ARE IN	SIZE	J.D.
MILLIMETERS,		$\infty$
TOLERANCES ARE ±0.5 AND ANGLES ARE 13 1	A3	XX
AS04008PS-4	W-WR-R idw	4

LINI ESS OTHERWISE

J.D.	9/25/2006	B.	R.
	pul.		
	audic	IIIC	

Date

9/25/2006 9/25/2006 12/31/2008 R.W. AS04008PS-4W-WR-R

Approved by

Speaker 1/1

Date

Drawn Date