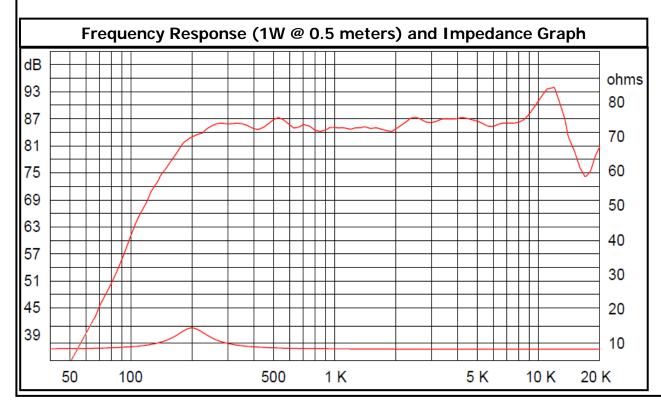


AS04004PR-R 40mm Speaker

3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

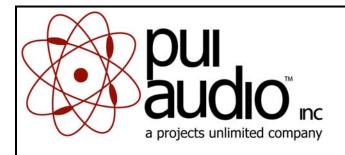
- 40mm diameter speaker with Neodymium magnet for 86 dB sensitivity
- 3W continuous, 4W maximum power handling and 4Ω impedance
- Rubber surround and treated paper cone for weather resistance











AS04004PR-R 40mm Speaker

Mechanical and Environment Testing		
Test Description Test Condition		
High Temperature	60°C (±2°C) with random humidity for 96 hours	
Low Temperature	-25°C (±2°C) with random humidity for 96 hours	
Humidity	40°C (±2°C) with 90% to 95% relative humidity for 48 hours	
Vibration	1.5 mm movement modulated at 30 Hz (±15 Hz) for 3 hours	
Drop Test	75 cm free fall onto concrete floor, 10 cycles	
After tests, speaker shall rest for 1 hour. SPL shall not deviate ± 3 dB from pre-test measurement.		
Temperature Cycle Test	-25°C to 60°C, 4 cycles (refer to Temperature Cycle Test Graph)	
After test, speaker shall rest for 1 hour. SPL shall not deviate ±3 dB from pre-test measurement.		

1	Temperature Cycle Test Graph		
	Room Temperature +60°C +25°C 1 Hour 10 Sec. Start 1 Hour 1 Hour		
1	\1 Hour / Total 4 Cycles -25°C		

Testing Voltage	Amplifier
	Audio Analyzer
Measuring Distance Standard Mic B&K 4191 IEC Baffle 135 x 165 cm	B&K Type 2012
Anechoic Chamber 480x420x360 cm	

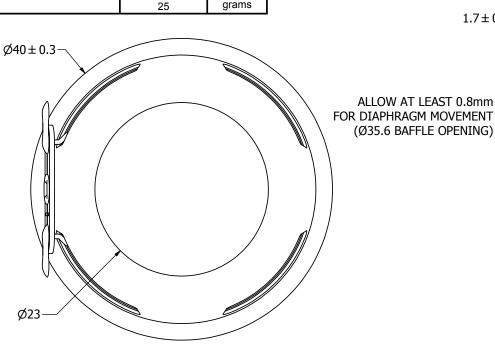
Thiele-Small Parameters		
Specification	AS04004PR-R	
Fo (Hz)	199	
Qes	1.444	
Qms	5.86	
Qts	1.159	
Vas (mm^3)	50.1k	
Sd (mm²)	779	
Mms (mg)	900	
Xmax (mm)	0.8	
Re (ohm)	4.13	
SPL (dB) 1W/1M	80.5	
BL (T)	1.885	

SPECIFICATIONS			
PARAMETERS	VALUES	UNITS	
RATED INPUT POWER	3	W	
MAX INPUT POWER	4	W	
IMPEDANCE	4 ± 15%	OHM	
OUTPUT SPL @ 1W/0.5M	00 + 0	40.4	
(AT 0.6, 0.8, 1.0, 1.2 kHz)	86 ± 3	dBA	
DISTORTION (MAX.)	5%	-	
RESONANT FREQUENCY	180 ± 20%	Hz	
FREQUENCY RANGE	100 ~ 20,000	Hz	
HOUSING MATERIAL	METAL	-	
CONE MATERIAL	PAPER	-	
MAGNET MATERIAL	RARE EARTH	-	
OPERATING TEMPERATURE	-40 ~ +85	°C	
WEIGHT	25	grams	

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	REVISION HISTORY		
LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	5/4/2010	
Α	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	6/15/2010	B.R.



AT LEAST 0.8mm
AGM MOVEMENT
AFFLE OPENING)



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.

UNLESS OTHERWISE SPECIFIED:	0175
DIMENSIONS ARE IN MILLIMETERS,	SIZE
TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.	A 3
AS04004PR-R.idw	

J.D.	5/4/2010	C
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400	A Division of Projects Unli	

Checked by

Designed by

Date	Approved by	Date	Drawn Date	
5/4/2010	B.R.	5/4/2010	6/15/2010	
AS04004PR-R				

Speaker Edition Sheet