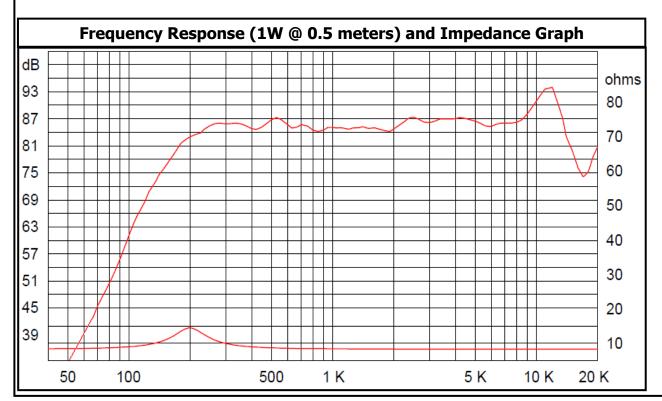


AS04004PR-R 40mm Speaker

3541 Stop Eight Road ● Dayton, Ohio 45414

Product Overview

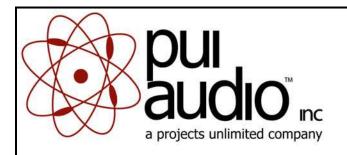
- 40mm diameter speaker with Neodymium magnet for 86 dB sensitivity
- 3W continuous, 4W maximum power handling and 4Ω impedance
- Rubber surround and treated paper cone for weather resistance











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		
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 cy		
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.

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

Testing Voltage	Amplifier
~~~~	Audio Analyzer
Standard Mic B&K 4191  IEC Baffle 135 x 165 cm	B&K Type 2012

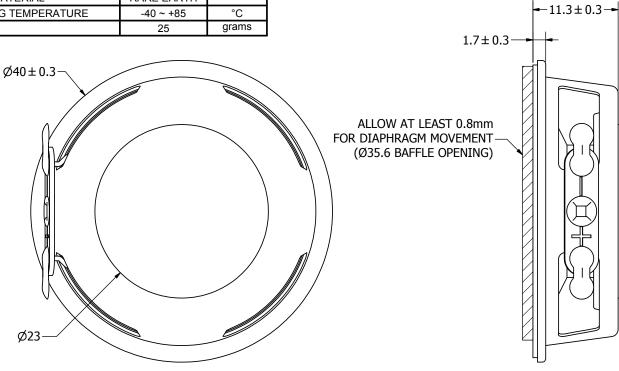
Thiele-Small Parameters		
Specification	AS04004PR-R	
Fo (Hz)	199	
Qes	1.08	
Qms	5.86	
Qts	0.91	
<b>Vas (</b> cu. cm)	134	
Sd (mm²)	922	
Mms (mg)	900	
Xmax (mm)	0.8	
<b>Re (ohm)</b> 4.13		
<b>SPL (dB) 1W/1M</b> 80.5		
BI (T)	1 5	

SPECIFICATIONS		
PARAMETERS	VALUES	UNITS
RATED INPUT POWER	3	W
MAX INPUT POWER	4	W
IMPEDANCE	4 ± 15%	ОНМ
OUTPUT SPL @ 1W/0.5M	86 ± 3	dBA
(AT 0.6, 0.8, 1.0, 1.2 kHz)	00 ± 3	UDA
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.





## 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:	CLZE
DIMENSIONS ARE IN MILLIMETERS.	SIZE
TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.	<b>A</b> 3
AS04004F	R-R.idw

J.D.	5/4/2010	
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198	A Division of Projects Unit	

Checked by

Designed by

 $-17.5 \pm 0.3$ 

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

Speaker Edition Sheet