

AS05008MR-4-R 50mm Speaker

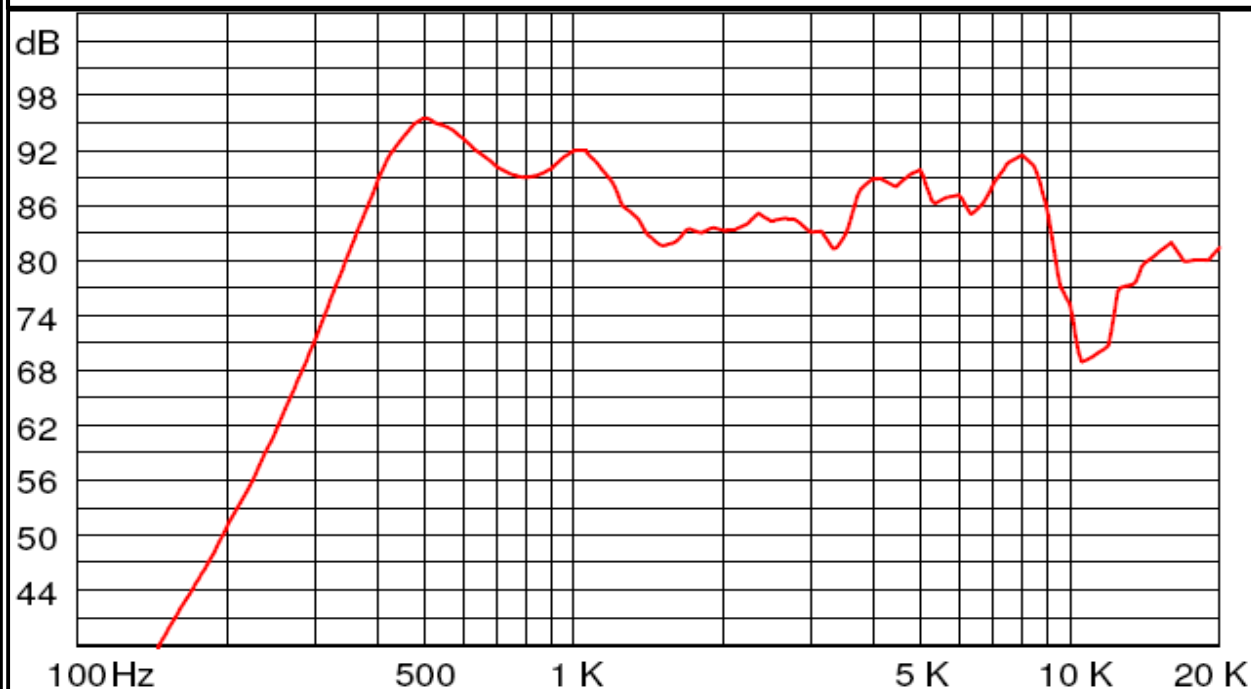
3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

- 50mm diameter speaker with Neodymium magnet for 92dB sensitivity
- 1.5W continuous, 2W maximum power handling and 8 Ω impedance
- Mylar cone and integrated Mylar surround for moisture resistance

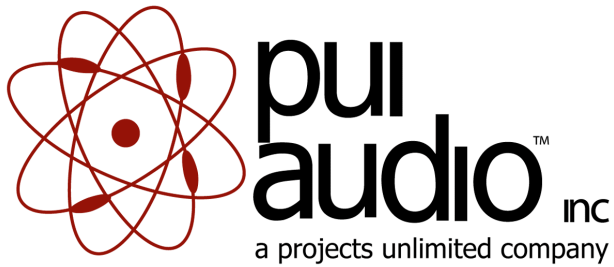


Frequency Response (0.1W @ 0.1 meters) and Impedance Graph



Audio Products of PUI Audio Inc.

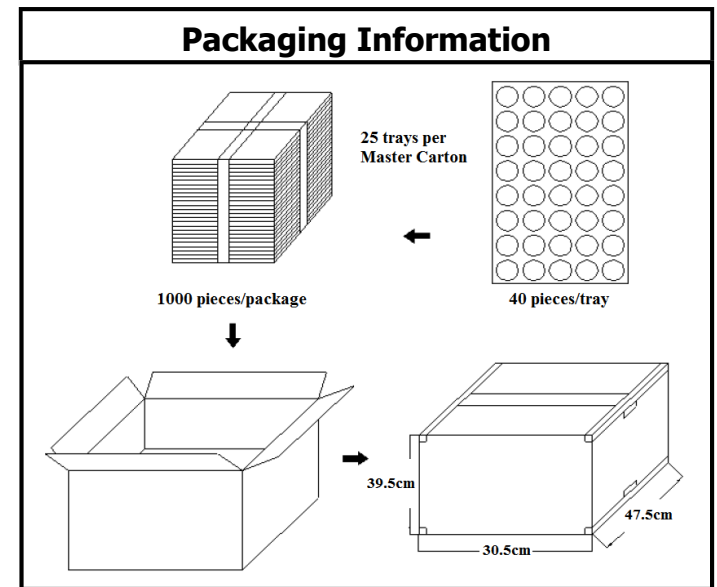
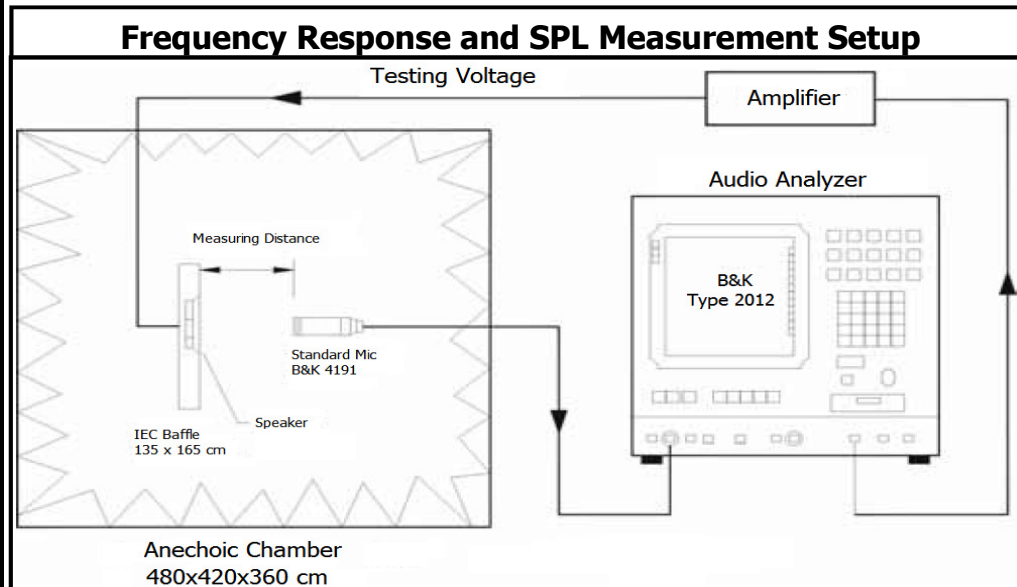
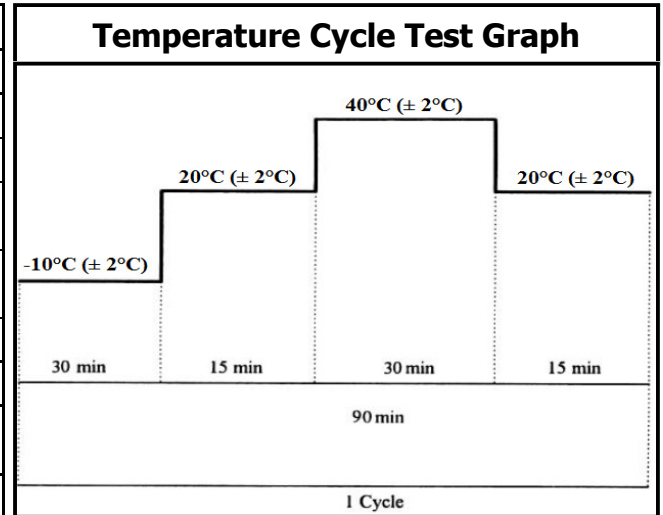




AS05008MR-4-R

50mm Speaker

Mechanical and Environment Testing	
Test Description	Test Condition
High Temperature	60°C ($\pm 2^\circ\text{C}$) with random humidity for 96 hours
Low Temperature	-30°C ($\pm 2^\circ\text{C}$) with random humidity for 96 hours
Humidity	25°C to 40°C ($\pm 2^\circ\text{C}$) 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	-10°C to 40°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.	



SPECIFICATIONS

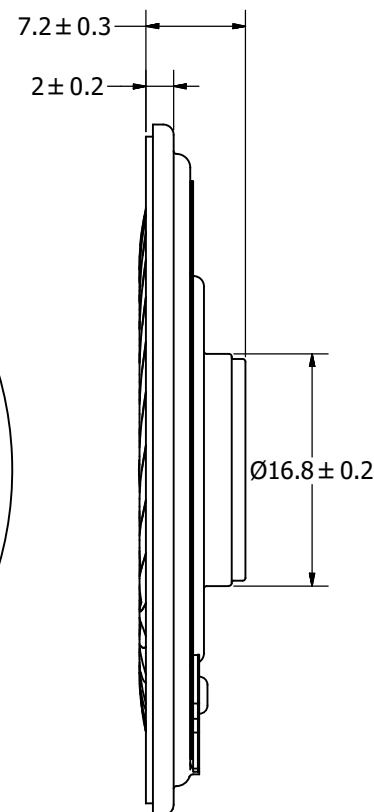
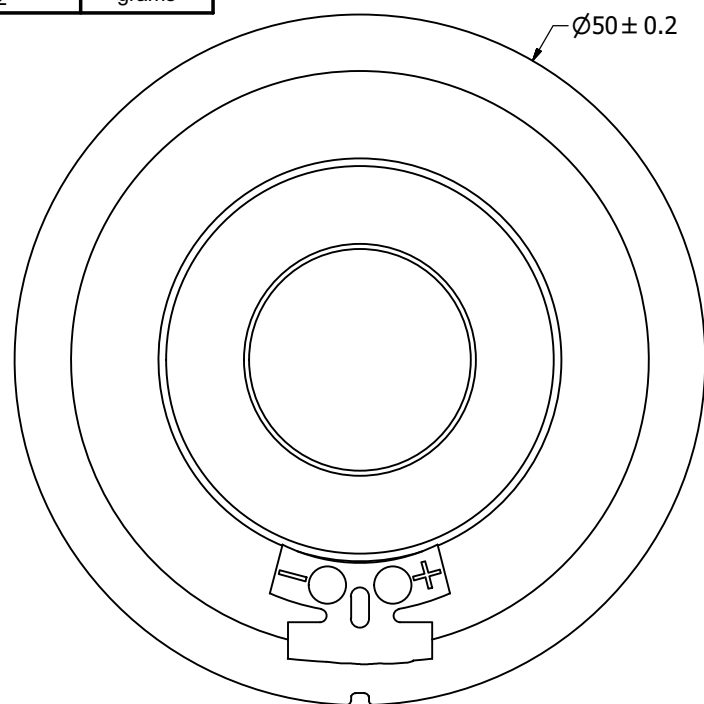
PARAMETERS	VALUES	UNITS
RATED INPUT POWER	1.5	W
MAX INPUT POWER	2	W
IMPEDANCE	$8 \pm 15\%$	OHM
OUTPUT SPL @ 0.1W/0.1M (AT 0.6, 0.8, 1.0, 1.2 kHz)	92 ± 3	dBA
DISTORTION (MAX.)	5%	-
RESONANT FREQUENCY	$350 \pm 20\%$	Hz
FREQUENCY RANGE	350 ~ 20,000	Hz
HOUSING MATERIAL	METAL	-
CONE MATERIAL	MYLAR	-
MAGNET MATERIAL	N35	-
OPERATING TEMPERATURE	-20 ~ +60	°C
WEIGHT	13.2	grams

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REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	2/22/2006	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	1/7/2009	B.R.
B	REVISED OPERATING TEMP	8/22/2013	M.L.
C	CORRECT RESONANT FREQUENCY TOLERANCE	6/17/2015	M.L.



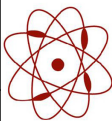
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
3. THIS PART IS RoHS 2011/65/EU COMPLIANT.

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

SIZE
A3

AS05008MR-4-R.idw

Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
J.A.F.	2/22/2006	B.R.	2/22/2006	E.P.	2/22/2006	1/7/2009
 pui audio a projects unlimited company						AS05008MR-4-R Speaker
						Edition - Sheet 1 / 1