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## AS01508MR-R 15mm Speaker

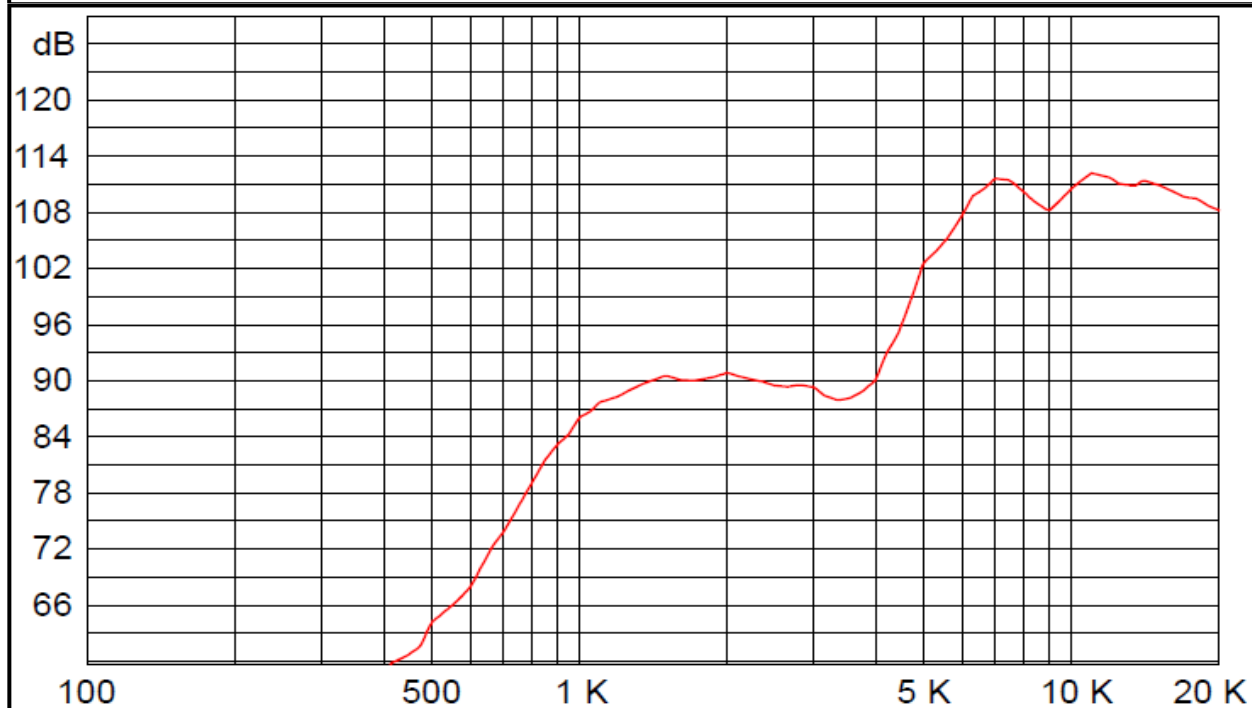


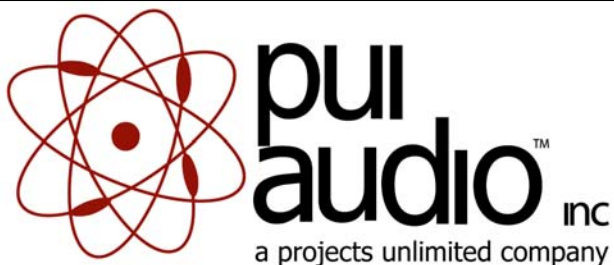
3541 Stop Eight Road • Dayton, Ohio 45414

### Product Overview

- 15mm overall diameter speaker with Neodymium magnet for 88 dB sensitivity
- 1.2W continuous, 1.8W maximum power handling and 8Ω impedance
- Mylar cone, integrated grill screen, and pre-applied double-sided tape for quick mounting

Frequency Response (0.1W @ 0.1 meter)

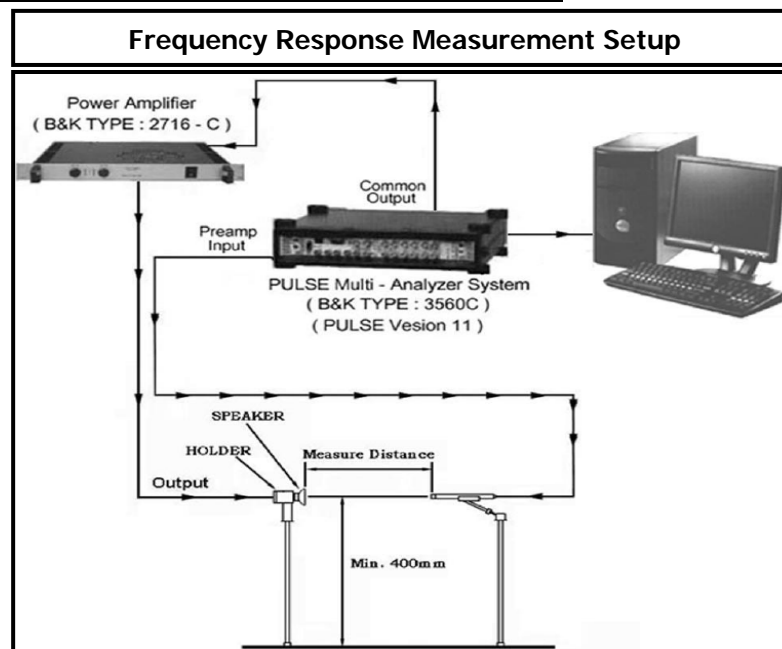
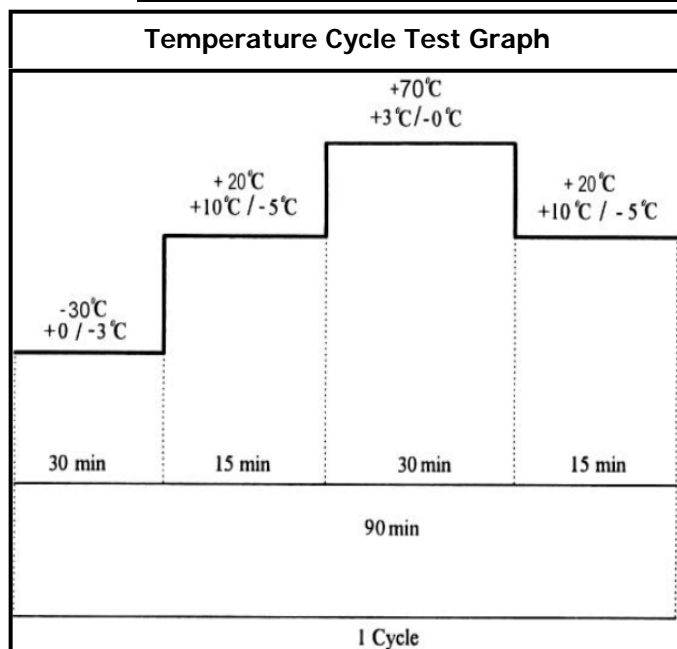




# AS01508MR-R 15mm Speaker

Mechanical and Environment Testing	
Test Description	Test Condition
High Temperature	85°C with random humidity for 96 hours
Low Temperature	-40°C with random humidity for 96 hours
Humidity	40°C ±2°C with 90% to 95% relative humidity for 96 hours
Vibration	1.5 mm movement modulated at 10 to 55 Hz for 2 hours
Drop Test	75 cm free fall onto 5 mm thick board, 10 cycles
Temperature Cycle Test	-20°C to 55°C, 5 cycles (refer to Temperature Cycle Test Graph)

After tests, speaker shall rest for 1 hours. SPL shall not deviate ±3 dB from pre-test measurement.



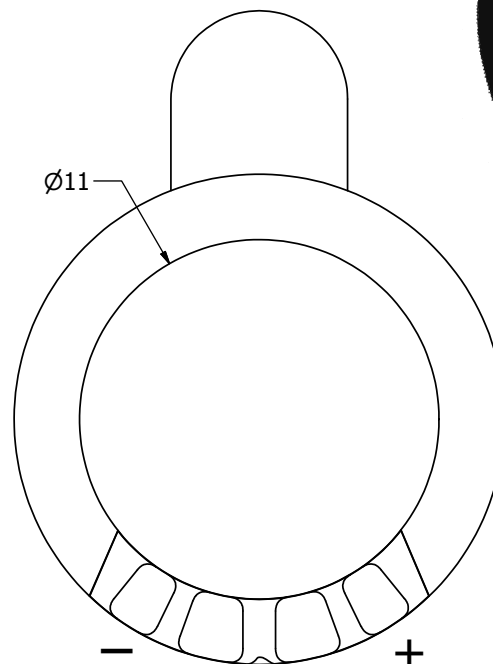
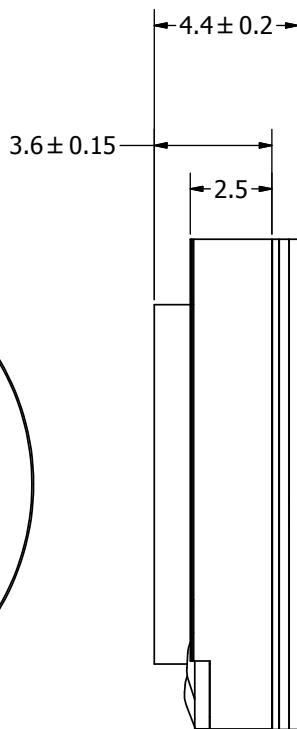
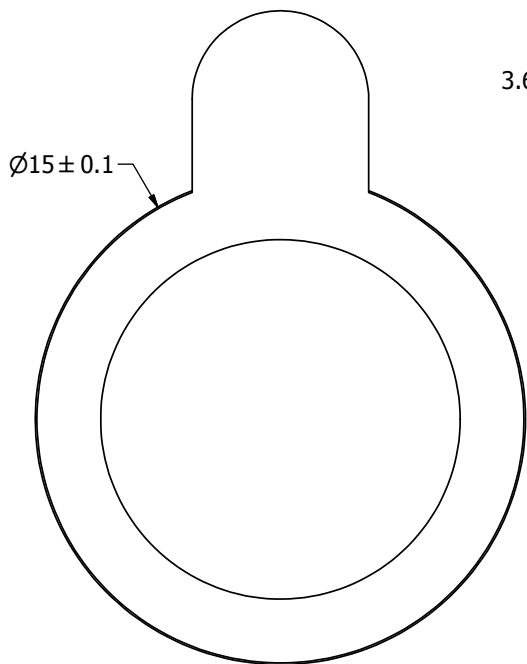
# SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED INPUT POWER	1.2	W
MAX INPUT POWER	1.8	W
IMPEDANCE	8 ± 15%	OHM
OUTPUT SPL @ 0.1W/0.1M (AT 0.8, 1.0, 1.2, 1.5, 2.0 kHz)	88 ± 3	dBA
DISTORTION (MAX.)	10%	-
RESONANT FREQUENCY	900 ± 20%	Hz
FREQUENCY RANGE	900 ~ 12,000	Hz
HOUSING MATERIAL	ABS	-
CONE MATERIAL	MYLAR	-
MAGNET MATERIAL	Nd-Fe-B	-
OPERATING TEMPERATURE	-30 ~ +70	°C
WEIGHT	1.5	grams

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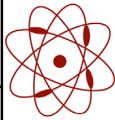
# REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	12/31/2007	
A	REVISED HEIGHT DIMENSIONS	2/05/2009	B.R.
B	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	2/06/2009	B.R.



### NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS, TOLERANCES ARE $\pm 0.5$ AND ANGLES ARE $\pm 3^\circ$ .	SIZE	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
	A3	J.D.	9/5/2006	B.R.	9/5/2006	R.W.	9/5/2006	2/6/2009
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