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## AS01308MR-R 13mm Speaker

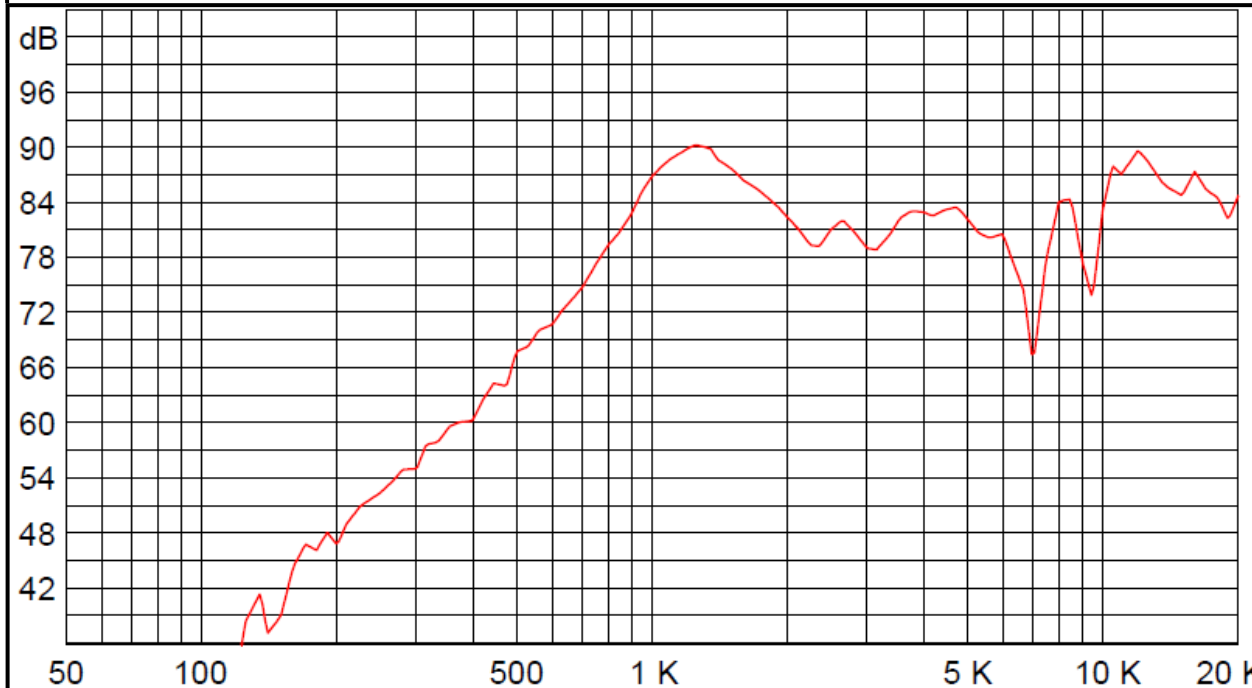


3541 Stop Eight Road • Dayton, Ohio 45414

### Product Overview

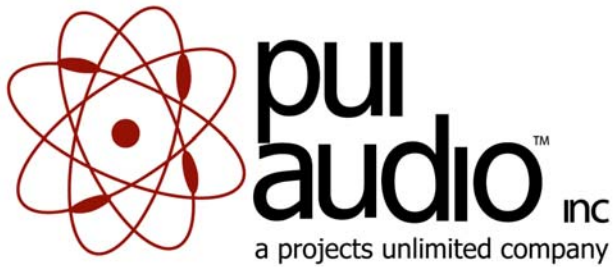
- 13mm diameter speaker with Neodymium magnet for 86 dB sensitivity
- 0.2W continuous, 0.4W maximum power handling and 8Ω impedance
- Mylar cone with pleated surround for wide frequency response

Frequency Response (0.2W @ 0.1 meter)



2011-01-01 to 12-31-2012





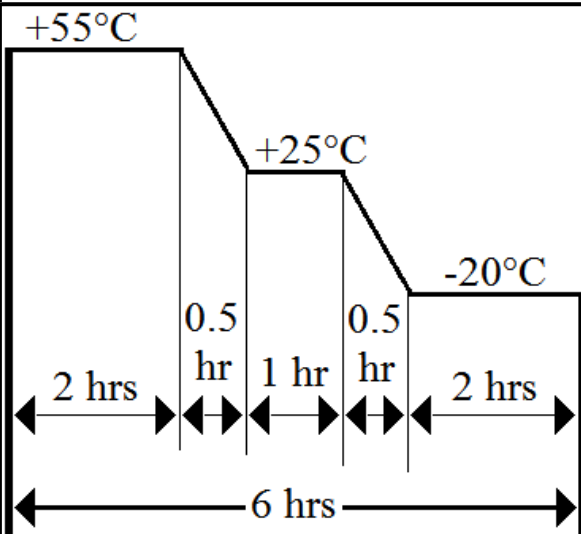
# AS01308MR-R 13mm Speaker

## Mechanical and Environment Testing

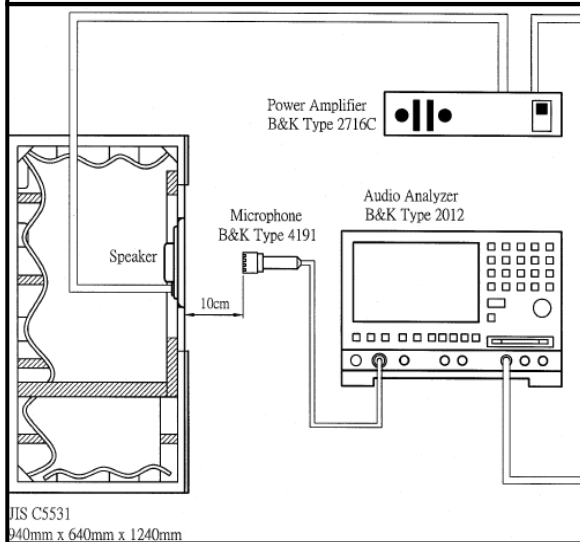
Test Description	Test Condition
High Temperature	55°C with random humidity for 96 hours
Low Temperature	-20°C with random humidity for 96 hours
Humidity	40°C with 90% to 95% relative humidity for 96 hours
Vibration	1.5 mm movement modulated at 10 to 55 Hz for 2 hours
Drop Test	75 cm free fall onto 40 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  $\pm 3$  dB from pre-test measurement.

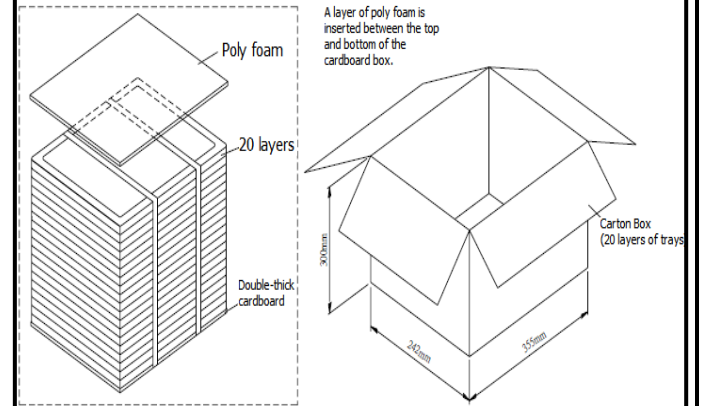
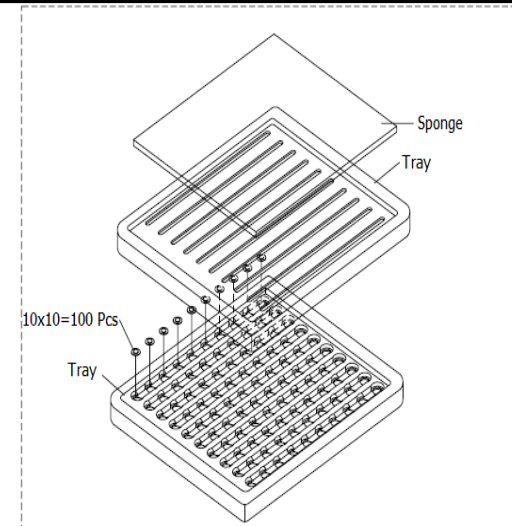
## Temperature Cycle Test Graph



## Frequency Response Measurement Setup



## Packaging Information



Tray	350mmx235mmx20mm	1x100PCS=100PCS
Carton Box	355mmx242mmx300mm	100PCSx20=2,000PCS

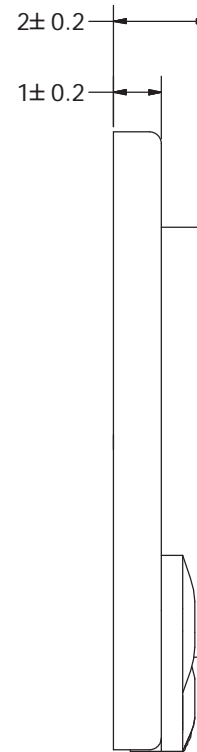
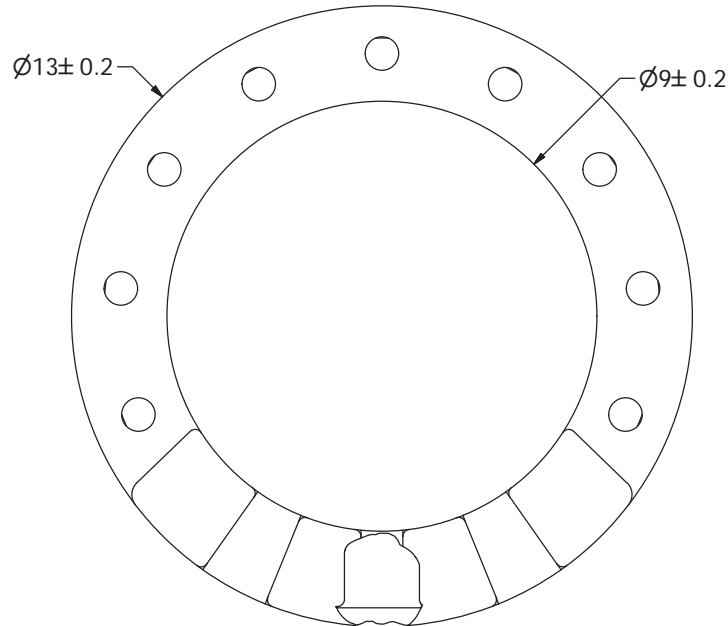
## SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED INPUT POWER	0.2	W
MAX INPUT POWER	0.4	W
IMPEDANCE	8 ± 15%	OHM
OUTPUT SPL @ 0.2W/0.1M (AT 1.5, 2.0, 2.5, 3.0 kHz)	86 ± 3	dBA
DISTORTION (MAX.)	10%	-
RESONANT FREQUENCY	1,050 ± 20%	Hz
FREQUENCY RANGE	1,050 ~ 20,000	Hz
HOUSING MATERIAL	METAL	-
CONE MATERIAL	MYLAR	-
MAGNET MATERIAL	Nd-Fe-B	-
OPERATING TEMPERATURE	-20 ~ +55	°C
WEIGHT	0.7	grams

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## REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	8/4/2005	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	10/30/2008	B.R.
B	REVISED TOLERANCES AND ROHS STATUS	10/9/2013	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 ±3°.	SIZE <b>A3</b>	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date	
		J.A.F.	8/4/2005	B.R.	8/4/2005	E.P.	8/4/2005	10/30/2008	
 a projects unlimited company		<b>AS01308MR-R</b>							
		Speaker						Edition	Sheet
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