

## AST-01508MR-R 15mm Speaker

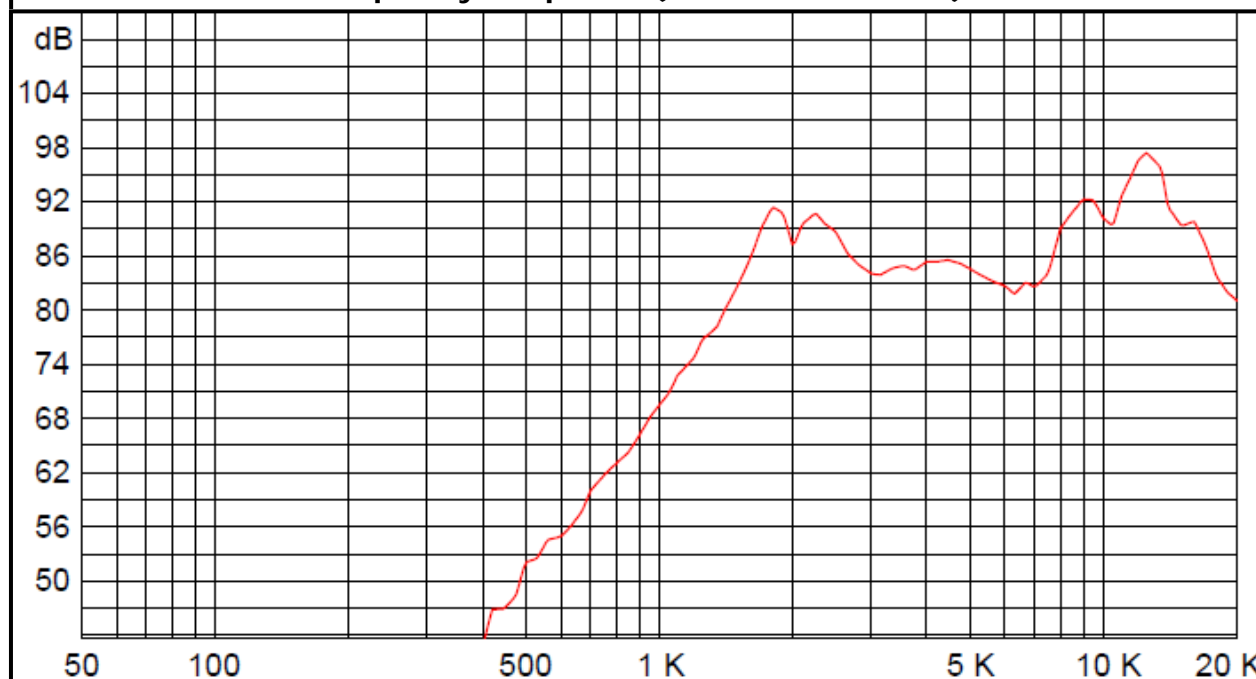
3541 Stop Eight Road • Dayton, Ohio 45414

### Product Overview

- 15mm diameter speaker with Neodymium magnet for 87 dB sensitivity
- 0.3W continuous, 0.5W maximum power handling and 8Ω impedance
- Mylar cone for wide frequency response
- Thru hole design and wave solderable for PCB mount



Frequency Response (0.3W @ 0.1 meter)



Audio Products Division



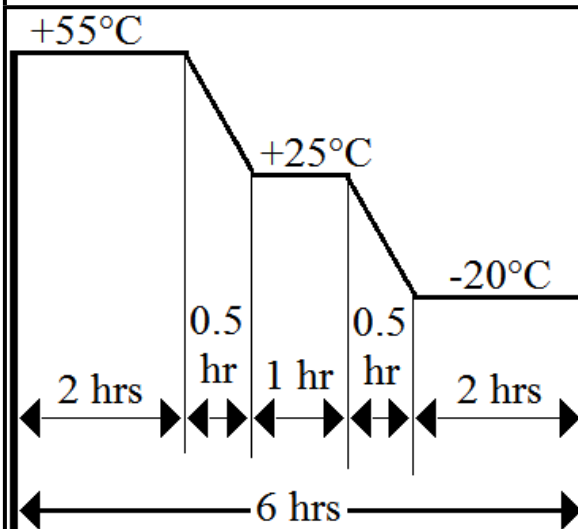
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### Mechanical and Environment Testing

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)

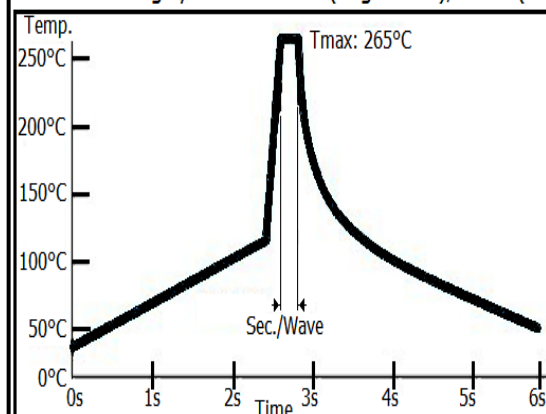
After tests, speaker shall rest for 1 hours. SPL shall not deviate  $\pm 3$  dB from pre-test measurement.

### Temperature Cycle Test Graph

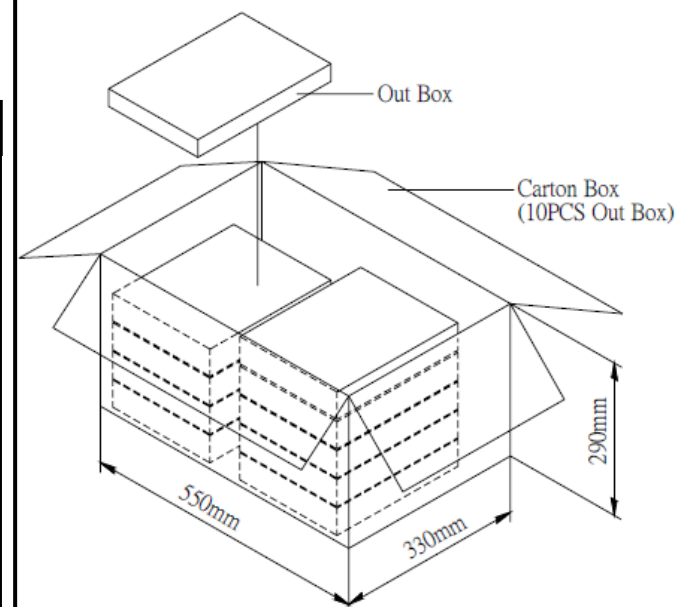
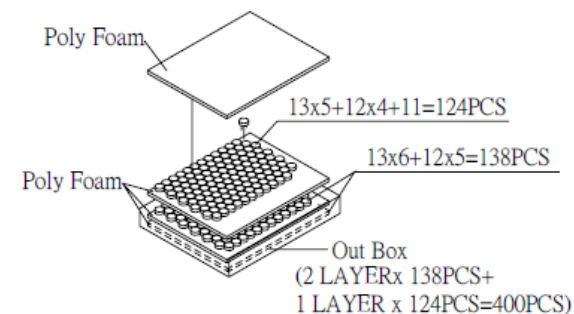


### Wave Solder Profile

- Preheat temperature: Max 100° less than 80 seconds
- Soldering bath temperature 250°C (lead)/265°C (lead-free alloy)
- Wave soldering cycle time: 4 sec. (single wave), 6 sec. (dual wave)



### Packaging Information



Out Box	310mmx248mmx49mm	1x400PCS=400PCS
Carton Box	550mmx330mmx290mm	400PCSx10=4,000PCS

## SPECIFICATIONS

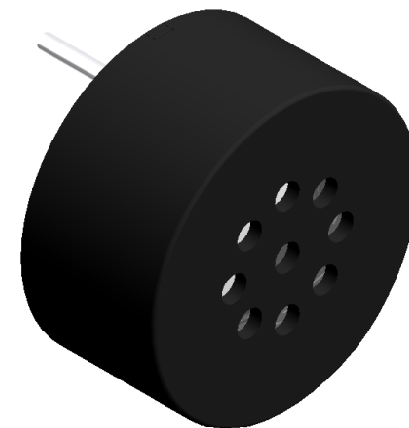
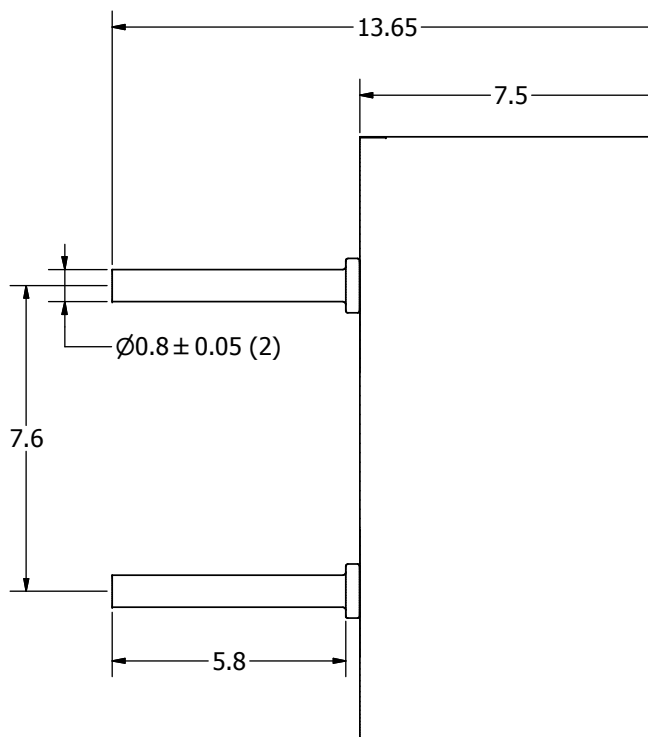
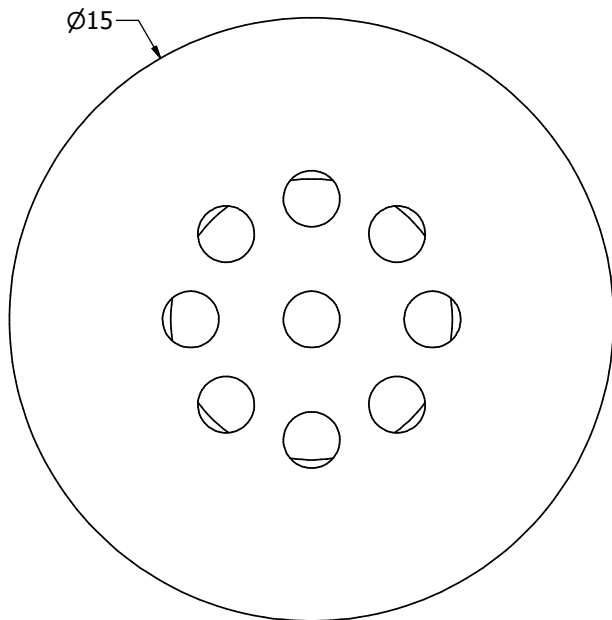
PARAMETERS	VALUES	UNITS
RATED INPUT POWER	0.3	W
MAX INPUT POWER	0.5	W
IMPEDANCE	8 ± 15%	OHM
OUTPUT SPL @ 0.3W/0.1M (AT 2.0, 2.5, 3.0, 4.0 kHz)	87 ± 3	dBA
DISTORTION (MAX.)	5%	-
RESONANT FREQUENCY	1,700 ± 20%	Hz
FREQUENCY RANGE	1,700 ~ 20,000	Hz
HOUSING MATERIAL	PBT+20% GLASS	-
CONE MATERIAL	MYLAR	-
MAGNET MATERIAL	Nd-Fe-B	-
OPERATING TEMPERATURE	-20 ~ +55	°C
WEIGHT	1.83	grams

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## REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	12/31/2007	
A	ADDED OVERALL HEIGHT DIMENSION	2/23/2009	B.R.
B	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	2/24/2009	B.R.
C	REVISED WEIGHT OF PART	6/8/2010	B.R.
D	REVISED HOUSING MATERIAL	7/27/2010	B.R.
E	REVISED HOUSING MATERIAL	3/1/2017	M.V.



## 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:	SIZE	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
DIMENSIONS ARE IN MILLIMETERS.	A3	J.A.F.	12/8/2005	B.R.	12/8/2005	E.P.	12/8/2005	2/24/2009
TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.		 <b>pui audio</b> a projects unlimited company		AST-01508MR-R				
AST-01508MR-R.idw				Speaker		Edition	Sheet	
						-	1 / 1	

# Mouser Electronics

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