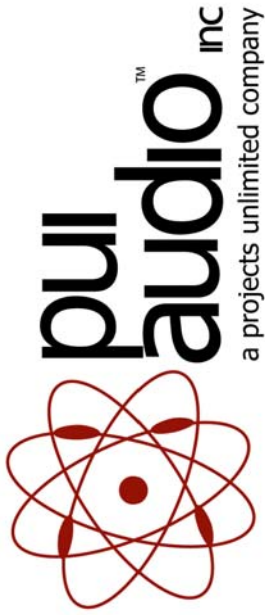




**THE DATASHEET OF
AST-01508MR-R**



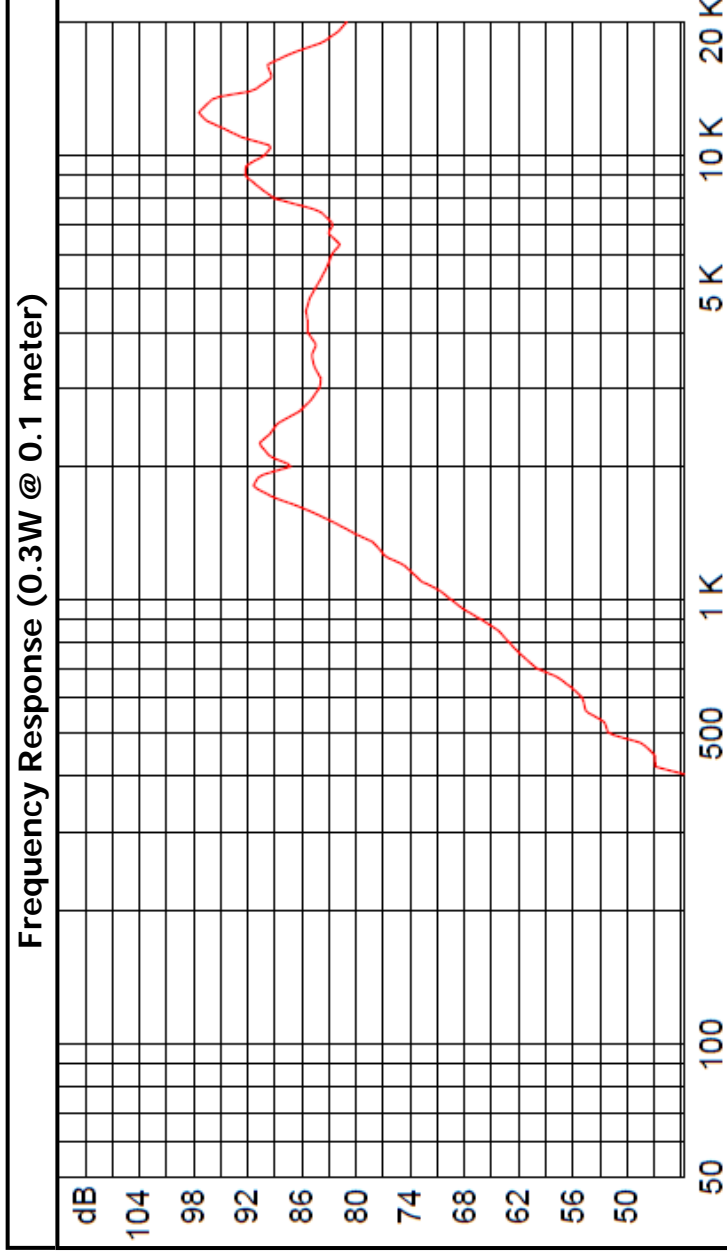


AST-01508MR-R 15mm Speaker

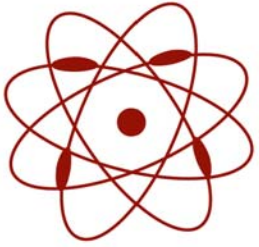
3541 Stop Eight Road • Dayton, Ohio 45414

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



Audio Products Division



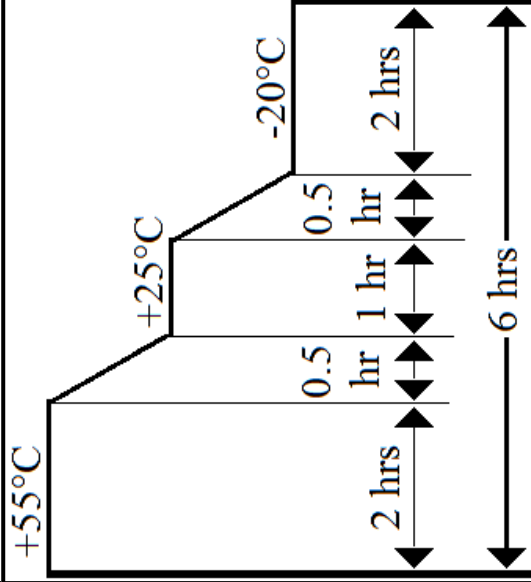
pui
audio™
inc
a projects unlimited company

AST-01508MR-R 15mm 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)

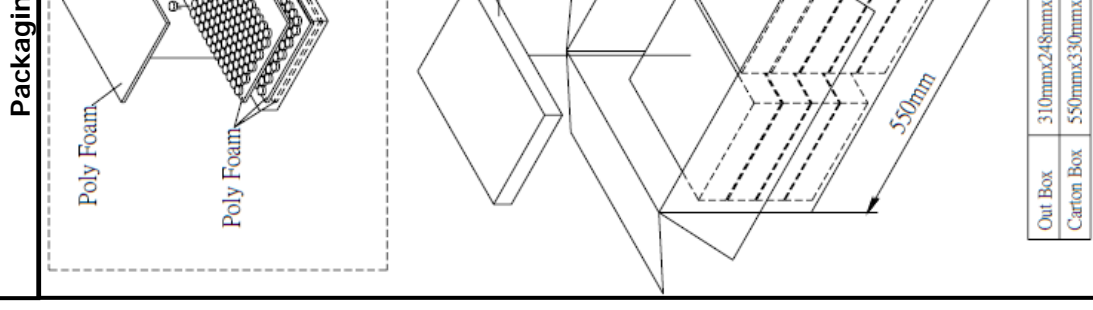
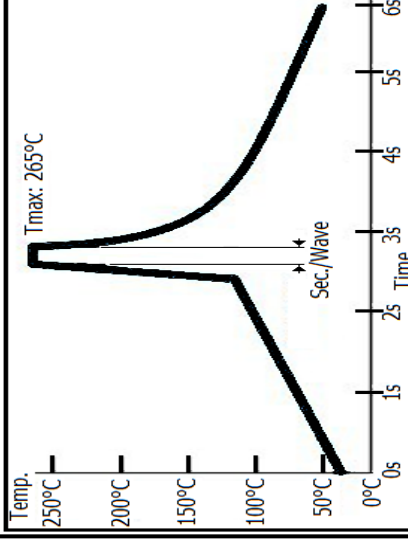
After tests, speaker shall rest for 1 hours. SPL shall not deviate ±3 dB from pre-test measurement.

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)



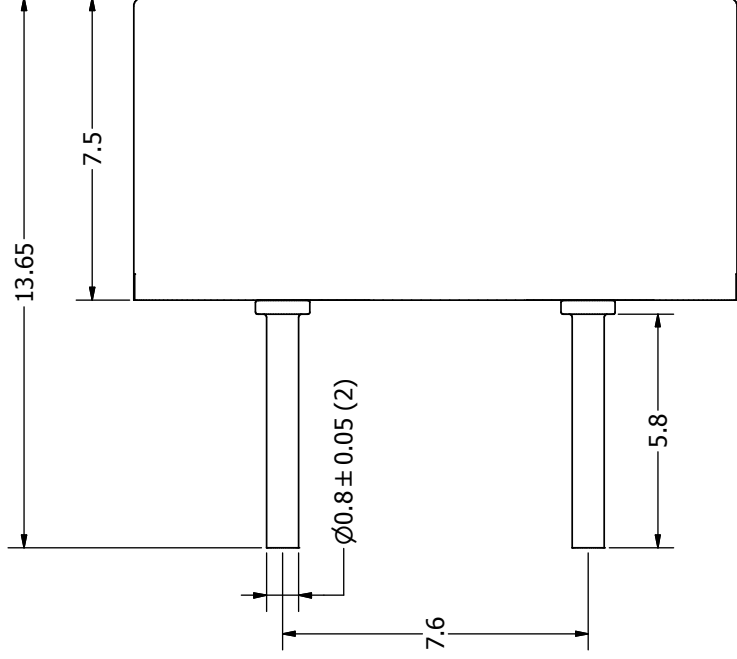
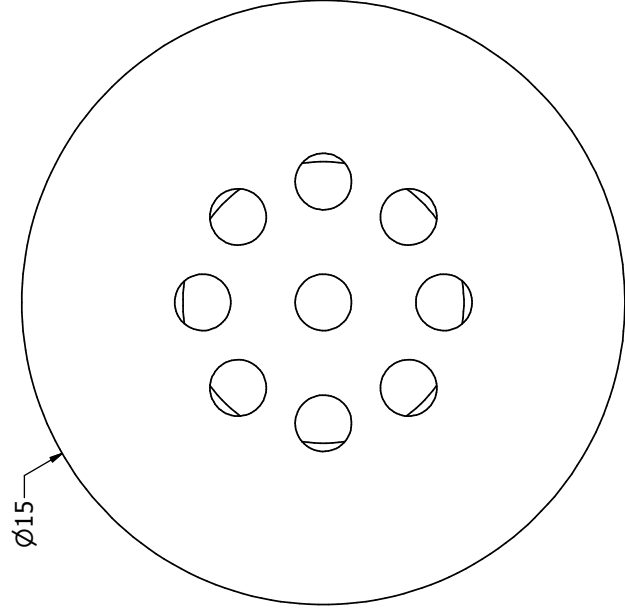
SPECIFICATIONS

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

THIS DOCUMENT CONTAINS DATA PROPRIETARY TO PROJECTS UNLIMITED, INC. ANY USE OR REPRODUCTION, IN ANY FORM, WITHOUT PRIOR WRITTEN PERMISSION OF PROJECTS UNLIMITED, INC. IS PROHIBITED.

©2003, Projects Unlimited Inc.

LTR	DESCRIPTION	REVISION HIST
-	RELEASED FROM ENGINEERING	
A	ADDED OVERALL HEIGHT DIMENSION	
B	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	
C	REVISED WEIGHT OF PART	
D	REVISED HOUSING MATERIAL	
E	REVISED HOUSING MATERIAL	



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 .005 AND ANGLES ARE $\pm 3^\circ$.

AST-01508MR-R.idw

SIZE

A3

Designed by

J.A.F.

Date

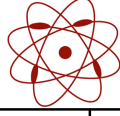
12/8/2005

Checked by

B.R.

Date

12/8/05



pui audio
inc
a projects unlimited company

AST-01508MR-R.idw

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View AST-01508MR-R on WIN SOURCE](#)

 [PUI Audio, Inc. Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management