

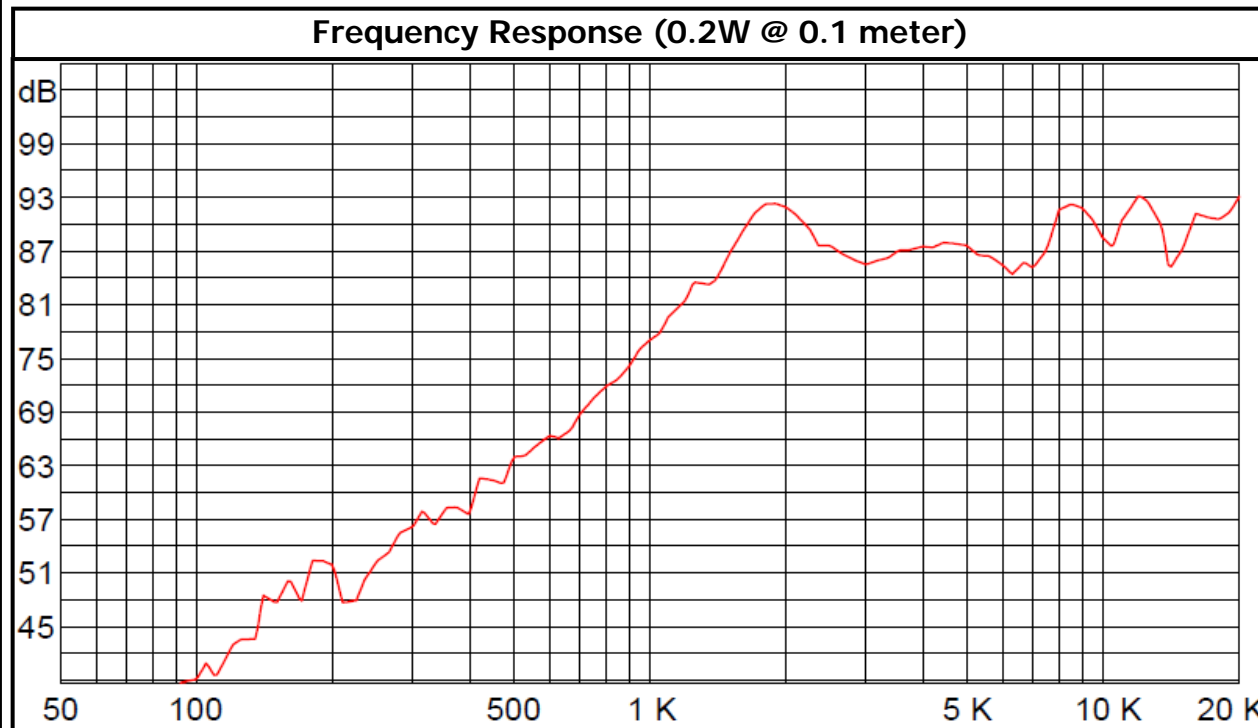
## AST-1732MR-R 17mm Speaker

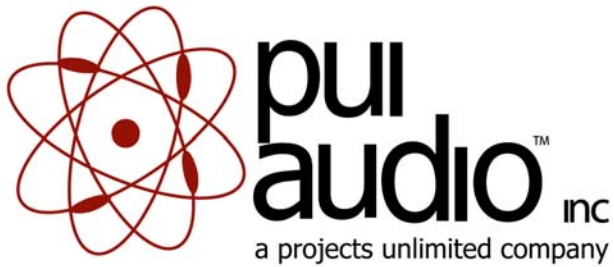


3541 Stop Eight Road • Dayton, Ohio 45414

### Product Overview

- 17mm diameter speaker with Neodymium magnet for 90 dB sensitivity
- 0.2W continuous, 0.5W maximum power handling and 32Ω impedance
- Mylar cone for wide frequency response
- Thru hole design and wave solderable for PCB mount





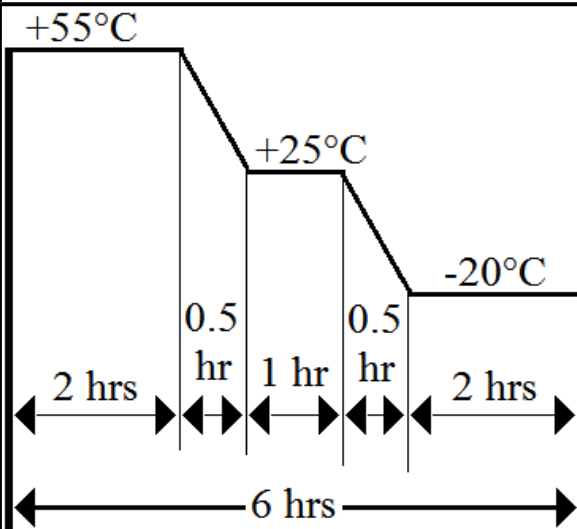
# AST-1732MR-R 17mm Speaker

## 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)

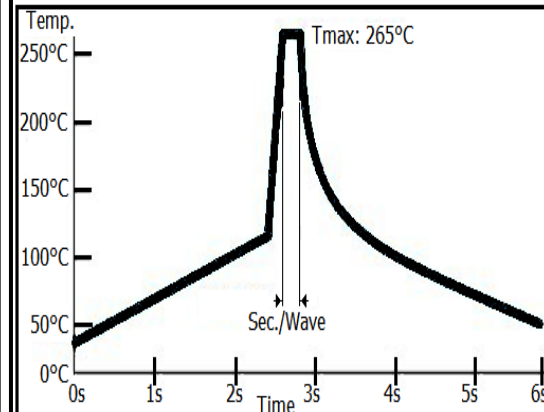
After tests, speaker shall rest for 1 hours. SPL shall not deviate  $\pm 3$  dB from pre-test measurement.

### Temperature Cycle Test Graph

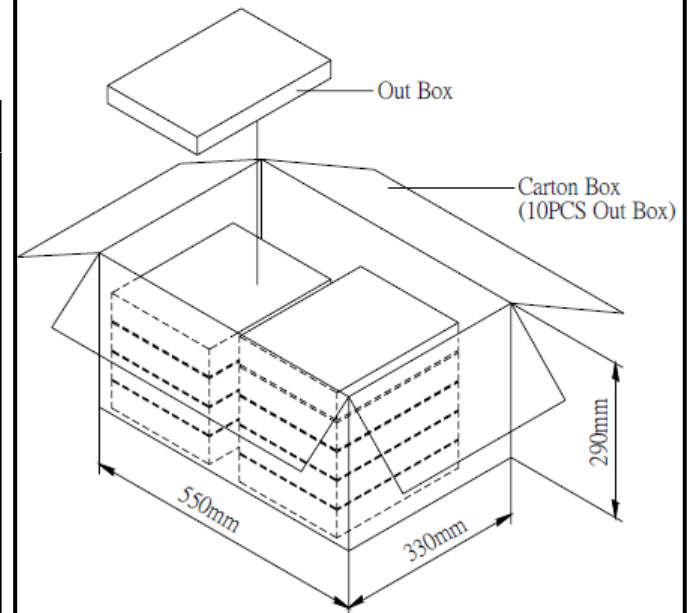
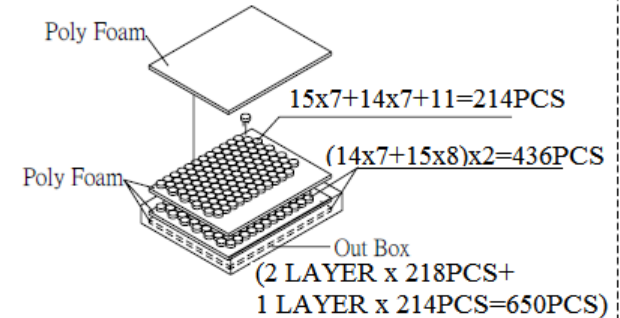


### Wave Solder Profile

- 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



Outer Box	310mmx248mmx49mm	1x650PCS=650PCS
Carton	550mmx330mmx290mm	650PCSx10=6,500PCS

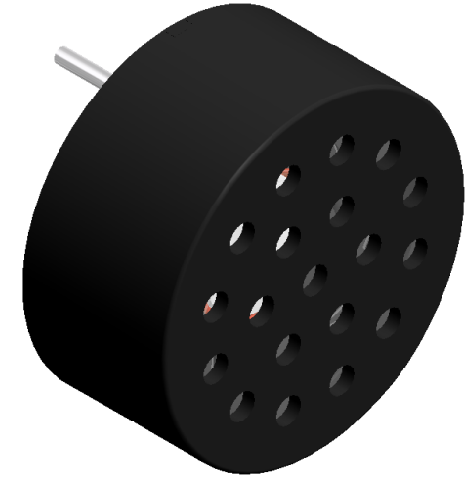
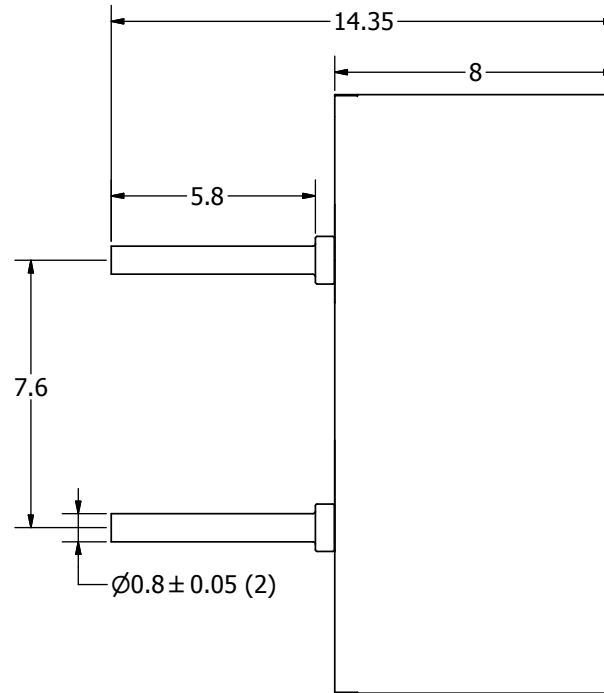
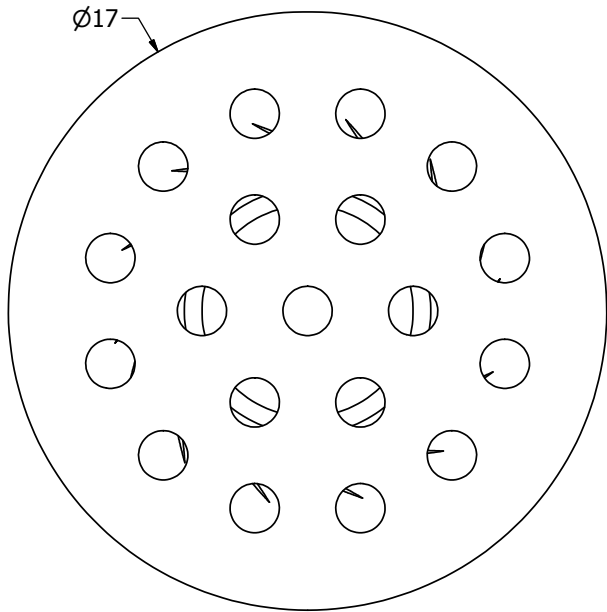
# SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED INPUT POWER	0.2	W
MAX INPUT POWER	0.5	W
IMPEDANCE (3Khz @ 1V)	32 ± 15%	OHM
OUTPUT SPL @ 0.2W/0.1M (AT 2.0, 2.5, 3.0, 4.0 kHz)	90 ± 3	dBA
DISTORTION (MAX.)	10%	-
RESONANT FREQUENCY	1,800 ± 20%	Hz
FREQUENCY RANGE	1,700 ~ 20,000	Hz
HOUSING MATERIAL	PBT	-
CONE MATERIAL	MYLAR	-
MAGNET MATERIAL	Nd-Fe-B	-
OPERATING TEMPERATURE	-20 ~ +55	°C
WEIGHT	2.9	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.

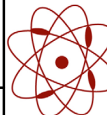
# REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	3/29/2006	
A	REVISED IMPEDANCE & FREQUENCY	11/20/2006	B.R.
B	ADDED OVERALL HEIGHT DIMENSION	2/25/2009	B.R.
C	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	2/26/2009	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 <b>A3</b>	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
		B.R.	3/29/2006	B.R.	3/29/2006	E.P.	3/29/2006	2/24/2009
AST-1732MR-R.idw		 <b>AST-1732MR-R</b> Speaker				Edition	Sheet	
						-	1 / 1	

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Speakers & Transducers](#) category:*

*Click to view products by [PUI Audio](#) manufacturer:*

Other Similar products are found below :

[FC-30814-P127](#) [AS02832MR-2-R](#) [PB-1220PE](#) [PB-2015PQ](#) [900-00001](#) [AB2025B-LW50-R](#) [SWFK-31736-000](#) [PT-2065FW](#) [PT-4175W](#) [AT-2830-TW-LW35-R](#) [ED-30761-000](#) [CI-30120-A42](#) [SMT-0440-T-2-R](#) [PB-0927PQ](#) [BF-7083-000](#) [BF-9778-000](#) [SMS2020-08H4.5 LF](#) [BDT1717-08H6.5W56MLF](#) [02094](#) [02097](#) [GSPK1003PN-8R0.2W-L100](#) [GSPK151103TN-8R0.2W](#) [GSPK2014035PN-8R0.5W-L100](#) [FS5353DS0830-H19.3](#) [TE082703-8](#) [XMLP040BD21F](#) [AS03608MR-LW100-R](#) [24520](#) [SMT-0540-S-2-R](#) [1450069](#) [9091653](#) [9091661](#) [IPS-G6000-5](#) [9090231](#) [FS50MS0820-H9.7](#) [FS4014-4-2W](#) [PBM4-13.B31R.A115.0663](#) [PBM4-13.B33R.A115.0663](#) [PBM4-13.B35R.A115.0663](#) [A-10-6-BG360-HD1Z-GA-M4Z-ZW](#) [A-10-6-BG410-HD1Z-AA-AGZ-ZW](#) [A-10-6-BG410-HD1Z-AA-M4Z-ZW](#) [A-10-6-BG410-HD1Z-FC-AGZ-ZW](#) [A-10-6-BG410-HD1Z-GA-M4Z-ZW](#) [A-10-6-BG310-HD1Z-AA-AGZ-ZW](#) [A-10-6-BG310-HD1Z-AA-M4Z-ZW](#) [A-10-6-BG310-HD1Z-GA-M4Z-ZW](#) [A-10-6-BG316-HD1Z-AA-AGZ-ZW](#) [A-10-6-BG316-HD1Z-AA-M4Z-ZW](#) [A-10-6-BG325-HD1Z-AA-AGZ-ZW](#)