

AST-03032MR-R 30mm Speaker

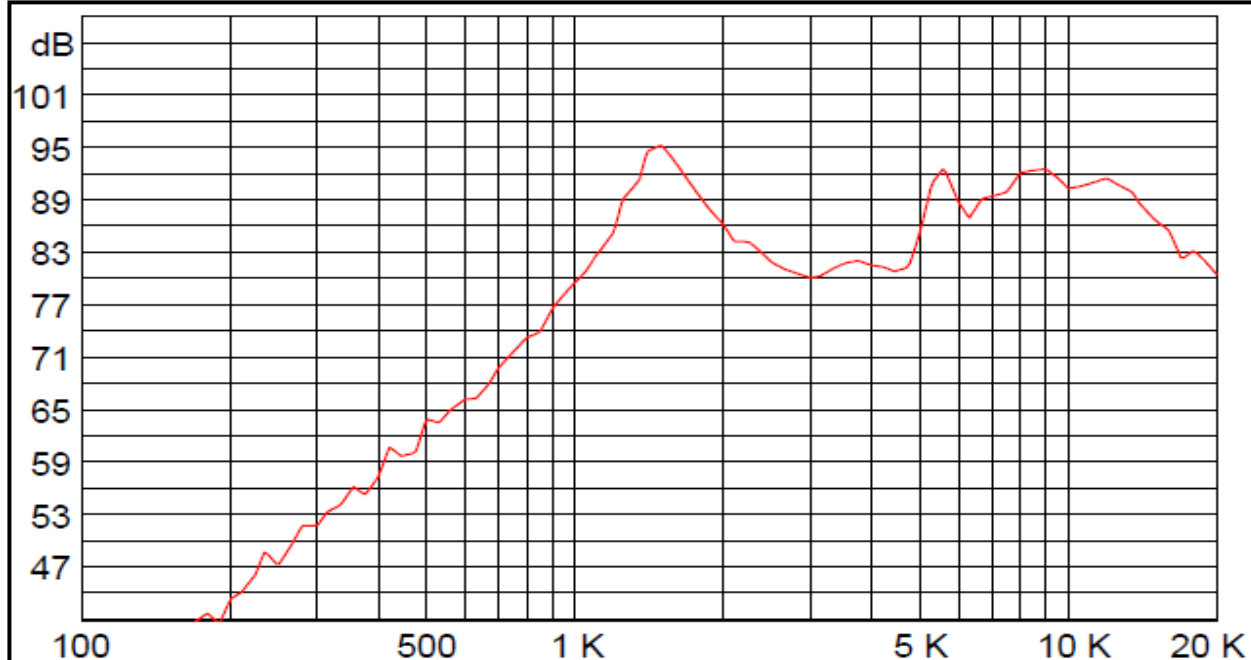
3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

- 30mm diameter speaker with Neodymium magnet for 81 dB sensitivity
- 0.1W continuous, 0.2W maximum power handling and 32Ω impedance
- Mylar cone for wide frequency response
- Thru hole design and wave solderable for PCB mount



Frequency Response (0.1W @ 0.1 meter)



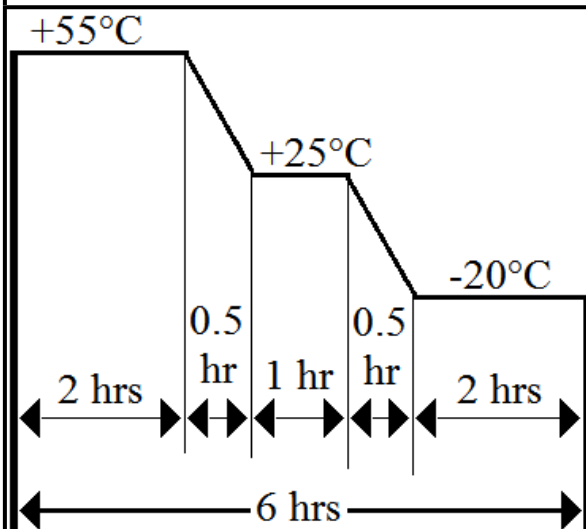
AST-03032MR-R 30mm Speaker

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)

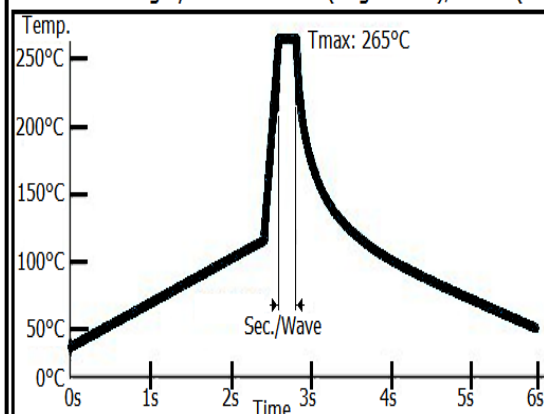
After tests, speaker shall rest for 1 hours. SPL shall not deviate ± 3 dB from pre-test measurement.

Temperature Cycle Test Graph

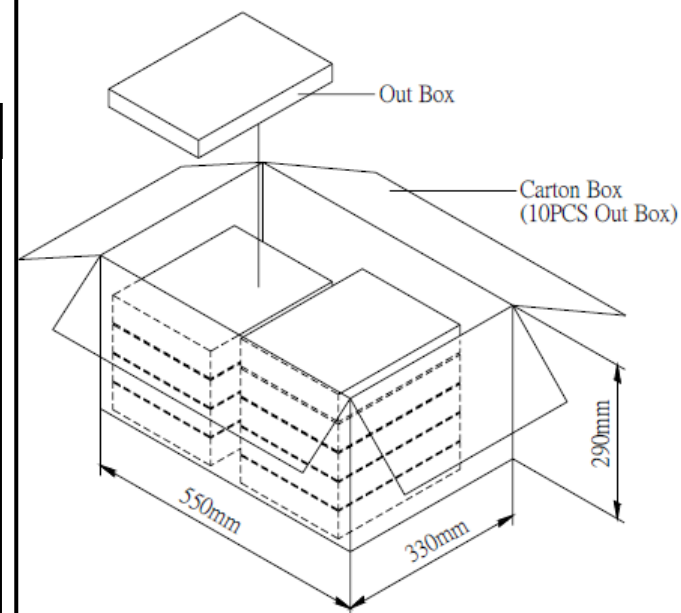
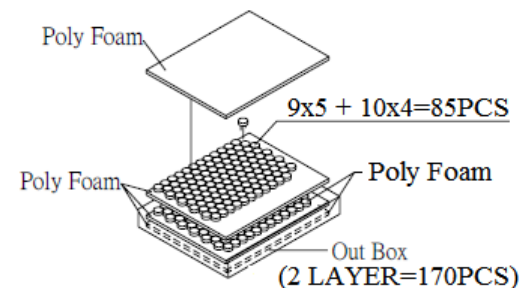


Wave Solder Profile

- 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)



Packaging Information



Outer Box	310mmx248mmx49mm	1x170PCS=170PCS
Carton	550mmx330mmx290mm	170PCSx10=1,700PCS

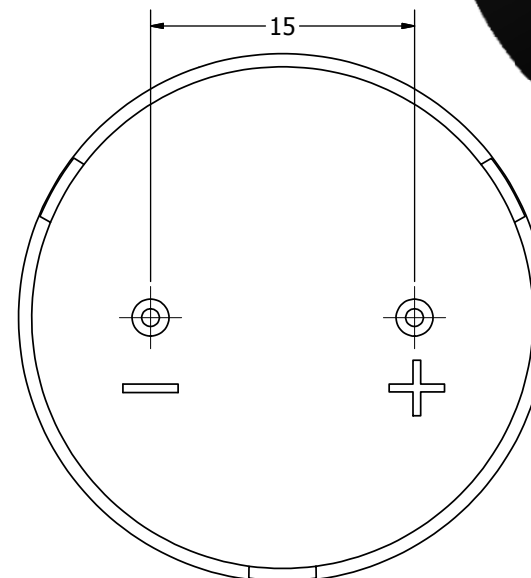
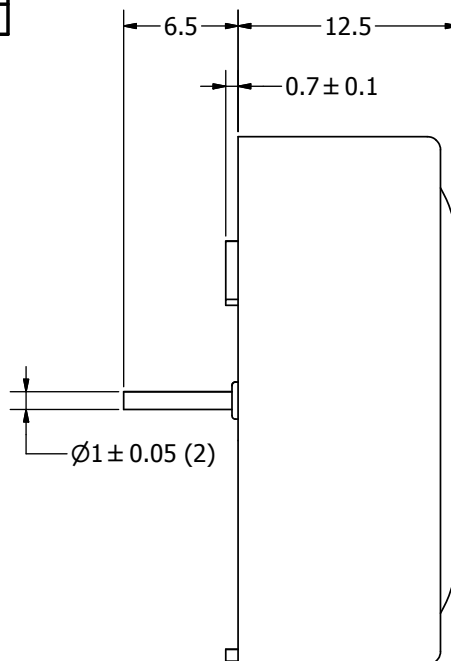
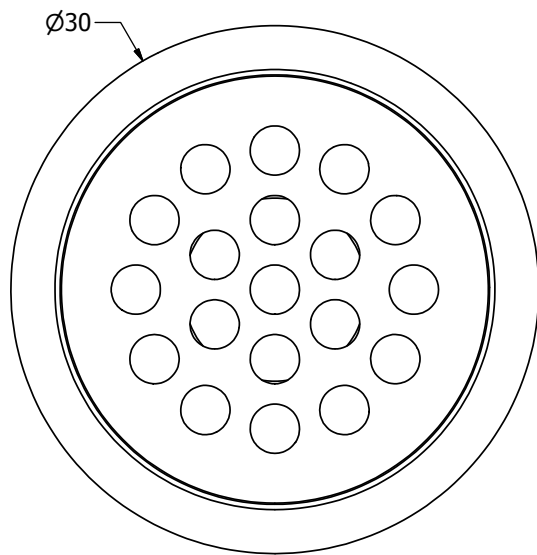
SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED INPUT POWER	0.1	W
MAX INPUT POWER	0.2	W
IMPEDANCE	32 ± 20%	OHM
OUTPUT SPL @ 0.1W/0.1M (AT 2.0, 2.5, 3.0, 4.0 kHz)	81 ± 3	dBA
DISTORTION (MAX.)	5%	-
RESONANT FREQUENCY	1,200 ± 20%	Hz
FREQUENCY RANGE	1200 ~ 20,000	Hz
HOUSING MATERIAL	PBT	-
CONE MATERIAL	MYLAR	-
MAGNET MATERIAL	Nd-Fe-B	-
OPERATING TEMPERATURE	-20 ~ +55	°C
WEIGHT	8.5	grams

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REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	5/17/2006	
A	REVISED PART DIMENSION	3/19/2007	D.F.
B	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	10/24/2008	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 ±0.5 AND ANGLES ARE ±3°.	SIZE	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date	
		J.D.	5/17/2006	E.P.	5/17/2006	B.R.	5/17/2006	10/24/2008	
	A3	 pui audio a projects unlimited company			AST-03032MR-R				
					Speaker				
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Mouser Electronics

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