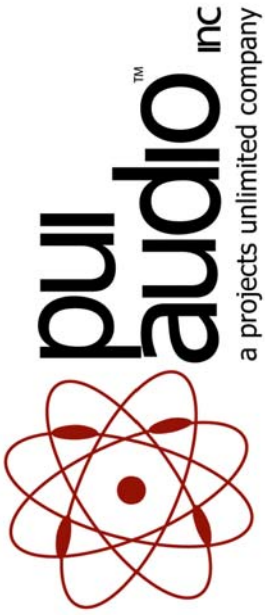




**THE DATASHEET OF
AS01808MR-R**



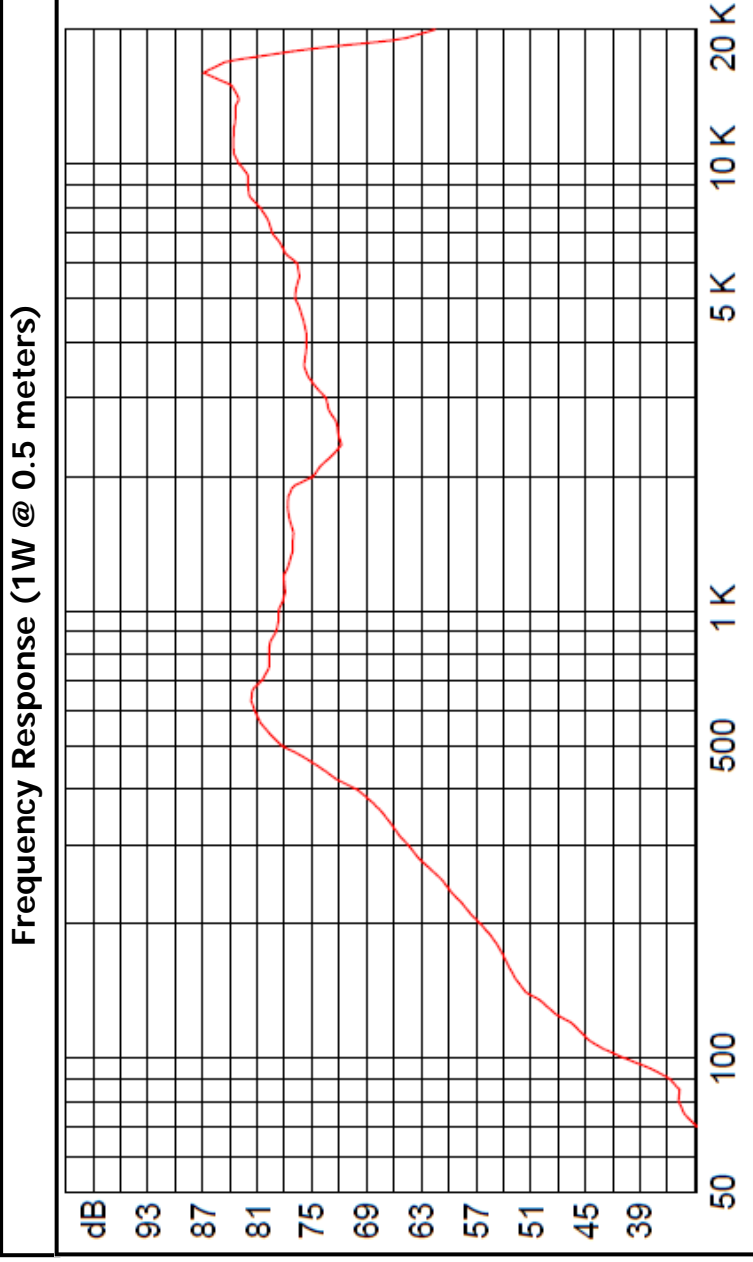


AS01808MR-R 18mm Speaker

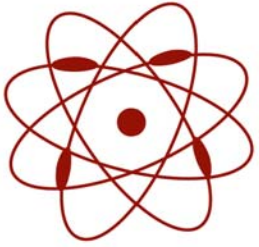
3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

- 18mm diameter speaker with Neodymium magnet for 80 dB sensitivity
- 1W continuous, 1.5W maximum power handling and 8Ω impedance
- Mylar cone with polyurethane surround for durability and moisture resistance



Audio Products of Inc. Co. Ltd.

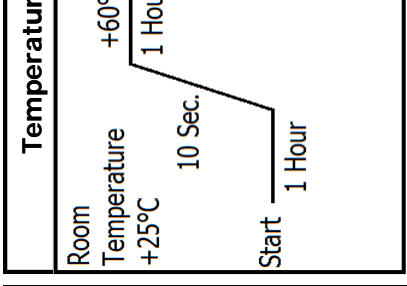


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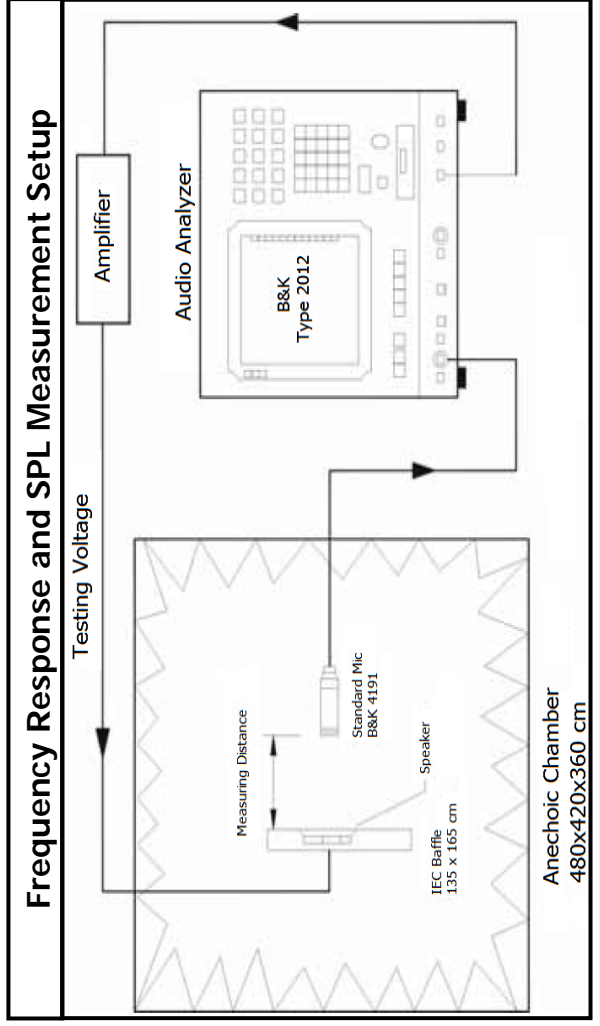
AS01808MR-R 18mm Speaker

Mechanical and Environment Testing	
Test Description	Test Condition
High Temperature	60°C ±2°C with random humidity for 96 hours
Low Temperature	-25°C ±2°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 concrete floor, 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 ±4 dB from pre-test measurement.



Thiele-Sn
Specification
Fo (Hz)
Qes
Qms
Qts
Vas (mm ^{^3})
Sd(mm ²)
Mms(g)
Xmax (mm)
Re (ohm)
SPL (dB) @ 1W/1m
BL (T)



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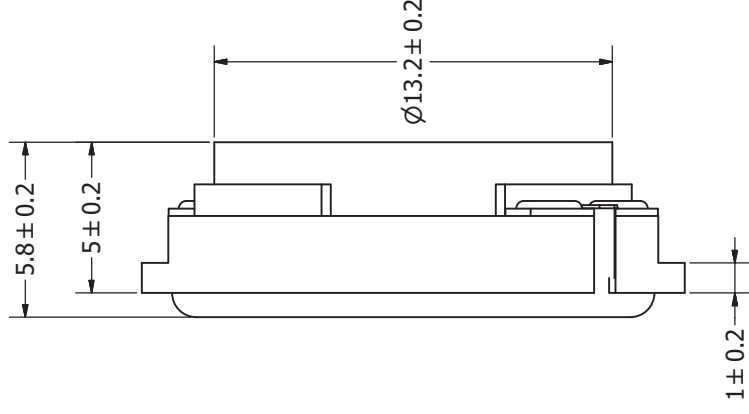
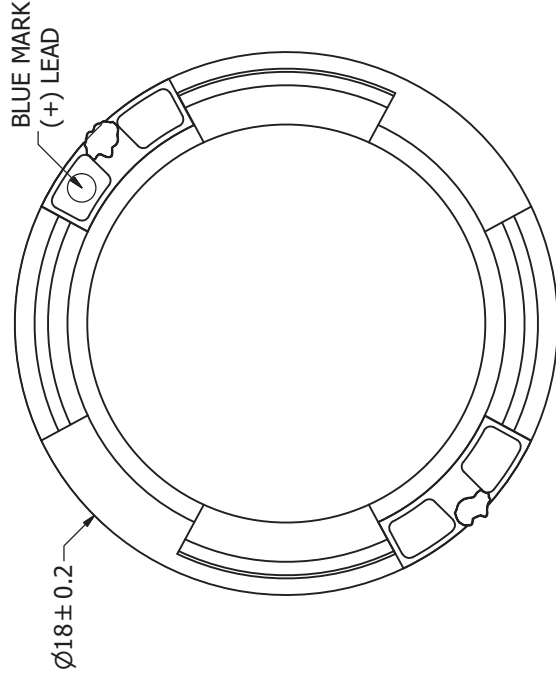
SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED INPUT POWER	1	W
MAX INPUT POWER	1.5	W
IMPEDANCE	8 ± 15%	OHM
OUTPUT SPL @ 1W/0.5M (AT 0.8, 1.0, 1.2, 1.5 kHz)	80 ± 3	dBa
DISTORTION (MAX.)	5%	-
RESONANT FREQUENCY	550~745	Hz
FREQUENCY RANGE	250 ~ 20,000	Hz
HOUSING MATERIAL	ABS	-
CONE MATERIAL	MYLAR	-
MAGNET MATERIAL	RARE EARTH	-
OPERATING TEMPERATURE	-25 ~ +60	°C
WEIGHT	2.8	grams

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LTR	REVISION HIST DESCRIPTION
-	RELEASED FROM ENGINEERING
A	ADDED RoHS NOTE
B	REVISED TO INVENTOR 3-D DRAWING TEMPLATE
C	REVISED RESONANT FREQUENCY



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°.

AS01808MR-R: idw

SIZE

A3

Designed by

J.D.

Date

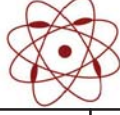
12/31/2007

Checked by

X.X.

Date

7/18/2007



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SIZE

A3

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