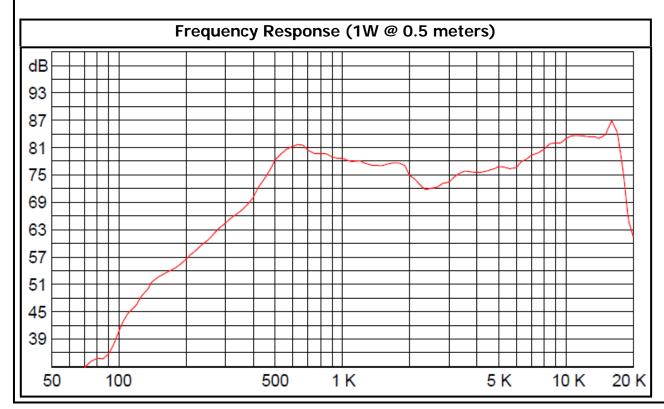


AS01808MR-R 18mm Speaker

3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

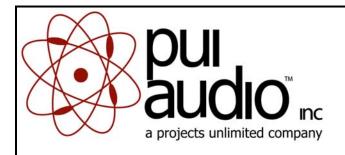
- 18mm diameter speaker with Neodymium magnet for 80 dB sensitivity
- 1W continuous, 1.5W maximum power handling and 8Ω impedance
- Mylar cone with polyurethane surround for durability and moisture resistance







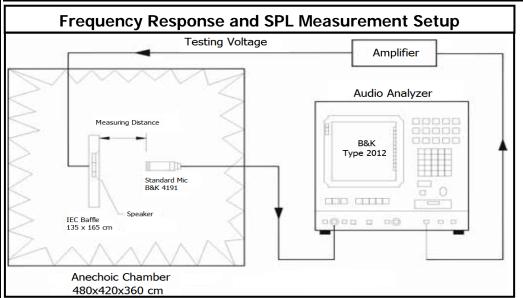


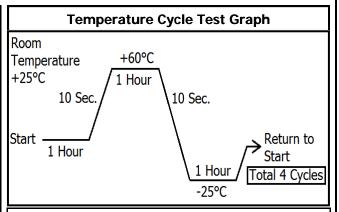


AS01808MR-R 18mm Speaker

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-Small Parameters

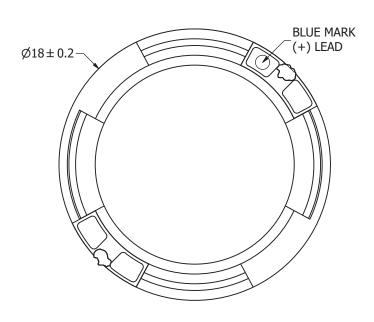
Specification	AS01808MR-R	
Fo (Hz)	505.9	
Qes	3.695	
Qms	2.302	
Qts	1.418	
Vas (mm^3)	3.1k	
Sd(mm ²)	156	
Mms(g)	0.110	
Xmax (mm)	1.5	
Re (ohm)	8.39	
SPL (dB) @ 1W/1m	72.39	
BL (T)	0.89	

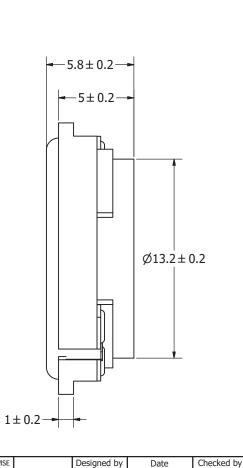
SPECIFICATIONS			
PARAMETERS	VALUES	UNITS	
RATED INPUT POWER	1	W	
MAX INPUT POWER	1.5	W	
IMPEDANCE	8 ± 15%	OHM	
OUTPUT SPL @ 1W/0.5M	80 + 3	dBA	
(AT 0.8, 1.0, 1.2, 1.5 kHz)	00 ± 3	UDA	
DISTORTION (MAX.)	5%	-	
RESONANT FREQUENCY	550~745	Hz	
FREQUENCY RANGE	250 ~ 20,000	Hz	
HOUSING MATERIAL	ABS	-	
CONE MATERIAL	MYLAR	-	
MAGNET MATERIAL	RARE EARTH	-	
OPERATING TEMPERATURE	-25 ~ +60	°C	
WEIGHT	2.8	grams	

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1	REVISION HISTORY			
	LTR	DESCRIPTION	DATE	APPROVED
ı	-	RELEASED FROM ENGINEERING	12/7/2005	
-	Α	ADDED RoHS NOTE	11/4/2008	J.D.
-	B REVISED TO INVENTOR 3-D DRAWING TEMPLATE		11/4/2008	B.R.
	С	REVISED RESONANT FREQUENCY	8/25/2017	M.V.
			•	•







NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS.
- 2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.
- 3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

UNLESS OTHERWISE SPECIFIED:	
DIMENSIONS ARE IN	SIZE
MILLIMETERS,	A 0
TOLERANCES ARE +0.5 AND	A3
ANGLES ARE ±3°.	, ()
AS01808MR-R.idw	

J.D.	12/31/2007	Х
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	audic a projects unlimited co) Incompany

Date	Approved by	Date	Drawn Date	
7/18/2007	X.X.	7/18/2007	11/4/2008	
AS01808MR-R				

Speaker Edition Sheet 1/1