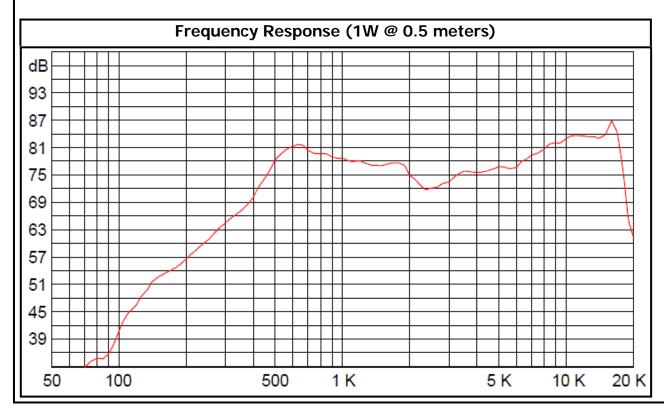


AS01808MR-R 18mm Speaker

3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

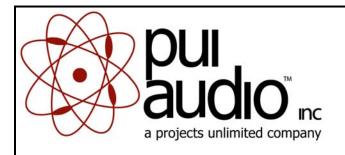
- 18mm diameter speaker with Neodymium magnet for 80 dB sensitivity
- 1W continuous, 1.5W maximum power handling and 8Ω impedance
- Mylar cone with polyurethane surround for durability and moisture resistance









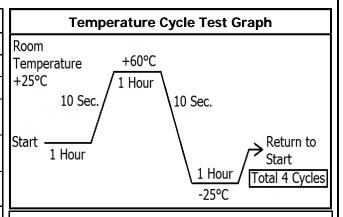


AS01808MR-R 18mm Speaker

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			
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	-25°C to 60°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.

Testing Voltage Amplifier Audio Analyzer Measuring Distance B&K Type 2012 Anechoic Chamber 480x420x360 cm



Thie	le-Smal	II Para	meters

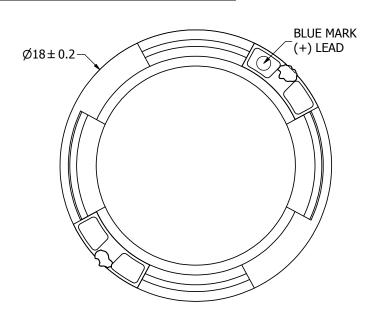
Specification	AS01808MR-R
Fo (Hz)	505.9
Qes	3.695
Qms	2.302
Qts	1.418
Vas (mm^3)	3.1k
Sd(mm ²)	156
Mms(g)	0.110
Xmax (mm)	1.5
Re (ohm)	8.39
SPL (dB) @ 1W/1m	72.39
BL (T)	0.89

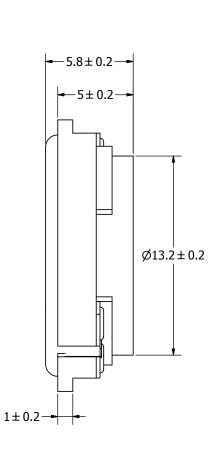
SPECIFICATIONS				
PARAMETERS VALUES U				
RATED INPUT POWER	1	W		
MAX INPUT POWER	1.5	W		
IMPEDANCE	8 ± 15%	OHM		
OUTPUT SPL @ 1W/0.5M	80 ± 3	dBA		
(AT 0.8, 1.0, 1.2, 1.5 kHz)	00 ± 3	UDA		
DISTORTION (MAX.)	5%	-		
RESONANT FREQUENCY	450 ± 20%	Hz		
FREQUENCY RANGE	250 ~ 20,000	Hz		
HOUSING MATERIAL	ABS	-		
CONE MATERIAL	MYLAR	-		
MAGNET MATERIAL	RARE EARTH	-		
OPERATING TEMPERATURE	-25 ~ +60	°C		
WEIGHT	2.8	grams		

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	REVISION HISTORY			
LTR	DESCRIPTION	DATE	APPROVED	
-	RELEASED FROM ENGINEERING	12/07/2005		
Α	ADDED RoHS NOTE	11/04/2008	J.D.	
В	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	11/04/2008	B.R.	







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:	CLZE
DIMENSIONS ARE IN MILLIMETERS,	SIZE
TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.	A 3
AS01808N	1R-R.idw

J.D.	12/31/2007	X.
	pul.	
	a projects unlimited co	Inc

Designed by

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

Edition Sheet Speaker 1/1