

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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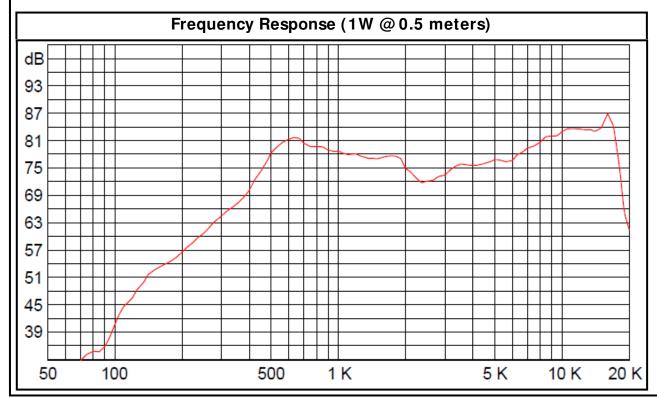


# AS04004PO-2-WR-R 40 x 28.5mm Water Resistant Speaker

3541 Stop Eight Road • Dayton, Ohio 45414

### **Product Overview**

- 40 x 28.5mm oval speaker with Neodymium magnet for 82 dB sensitivity
- 3W continuous, 4W maximum power handling and  $4\Omega$  impedance
- Proprietary water resistant cone with natural sounding frequency response

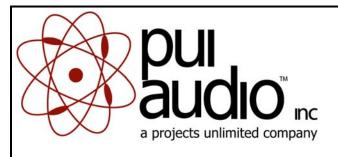










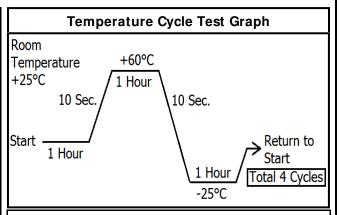


# AS04004PO-2-WR-R 40 x 28.5mm Water Resistant Speaker

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	-25°C to 60°C, 4 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 Bak Type 2012 Anechoic Chamber 480x420x360 cm



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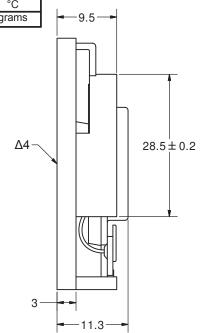
Specification	AS04004PO-2-WR-R	
Fo (Hz)	420	
Qes	4.509	
Qms	4.414	
Qts	2.231	
Vas (mm^ 3)	19.2k	
Sd (mm²)	599	
Mms (g)	0.309	
Xmax (mm)	0.6	
Re (ohm)	4.26	
SPL (dB) @ 1W/ 1m	82	
BL (T)	0.925	

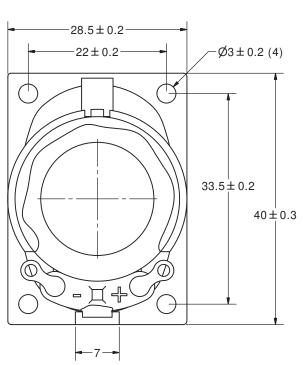
**SPECIFICATIONS PARAMETERS VALUES UNITS** RATED INPUT POWER W MAX INPUT POWER 4 W **IMPEDANCE**  $4 \pm 15\%$ OHM OUTPUT SPL @ 1W/1M  $82 \pm 3$ dBA (AT 1.0, 1.2, 1.5, 2.0 kHz) DISTORTION (MAX.) 5% RESONANT FREQUENCY 420 ± 20% Hz 200 ~ 20,000 FREQUENCY RANGE Hz HOUSING MATERIAL ABS CONE MATERIAL TREATED PAPER MAGNET MATERIAL RARE EARTH **OPERATING TEMPERATURE** -10 ~ +55 °C grams WEIGHT 11.9

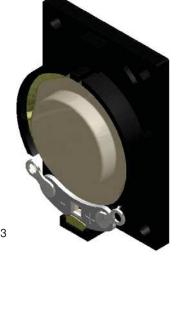
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REVISION HISTORY				
LTR	DESCRIPTION	DATE	APPROVED	
-	RELEASED FROM ENGINEERING	12/7/2005		
Α	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	6/27/2008	B.R.	
В	ADDED NOTE 5	8/11/2011	B.R.	







1. ALL DIMENSIONS ARE IN MILLIMETERS.

NOTES:

SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.

3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

Δ4. CONE HAS BEEN TREATED FOR WATER RESISTANCE.

5. BASE SPEAKER PUI# AS04004PO-2-R.

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MILLIMETERS,

TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.

AS04004PO-2-WR-R.idw

<b>DUI</b>	J	l.D.	12/6/2005	E
audio A Division of Projects Unlimited	8		pul	С

Date

Checked by

Date

B.R. 12/6/2005 E.P. 12/6/2005 6/27/2008 AS04004PO-2-WR-R

Approved by

Speaker Edition Sheet

Date

Drawn Date