



Data Sheet AS04004MR-N50-R

Introducing the N50 Mini Speaker Series from PUI Audio. High-grade neodymium magnetic motors are employed in each N50 Series speaker to create the highest output possible, in the smallest form factor.

The 40mm diameter **ASO4004MR-N50-R** is built with a silver poly convex-capped paper diaphragm, rubber surround, and a cupped spider. A Kapton® former reduces moving mass for high sensitivity.

Features:

- Silver poly cone and rubber surround
- High 84 dB output at 1W/50cm
- N50 neodymium motor
- Only 20.5mm thick
- 2.5mm of excursion

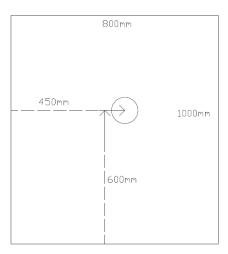
Specifications

Parameters	Values	Units
Rated Input Power	5	Watts
Max Input Power	6	Watts
Impedance	4 ± 15%	Ohms
Sensitivity (SPL @ 1W/50cm)		
(800, 1000, 1200, and 1500 Hz)	84 ± 3	dBA
Distortion (Max @ 1W, 1 kHz)	<5%	
Resonant Frequency	150 ± 20%	Hz
Frequency Range	$100 \sim 20,000$	Hz
Housing Material	ABS	
Magnet Material	NdFeB	
Weight	21.5	Grams

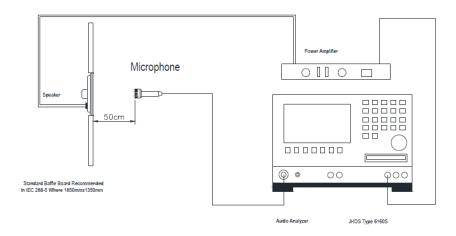
Specifications (continued)

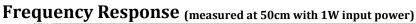
Buzz, Rattle, etc.	Should not be audible with 4.47Vpk sine wave from 150 Hz to 20 kHz	
Polarity	When positive voltage is applied to the positive terminal, the diaphragm will move outward	
Operating Temperature	-20 ~ +60	°C
Storage Temperature	-30 ~ +70	°C

Measurement Method



Test Baffle (speaker mounted in circle)





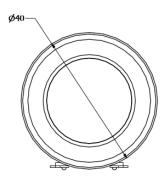


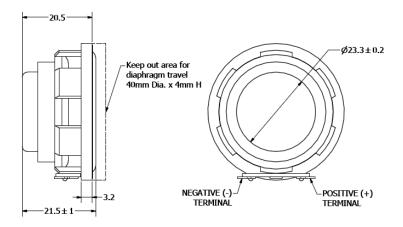
Reliability Testing

Type of Test	Test Specifications	
High Temperature Test	96 hours at +85°C ± 3°C followed by six hours in normal room temperature	
Low Temperature Test	96 hours at -40°C ± 3°C followed by six hours in normal room temperature	
Humidity Test	96 hours at +30°C ± 3°C with relative humidity at 92% to 95% followed by 3 hours in normal room temperature	
Temperature Cycle Testing	The part shall be subjected to 5 cycles using the following procedure:	
	90 ~ 95 % RH 65°C 25°C 0.5hr 6hrs 0.5hr 5hrs	
Vibration Test	10 to 55 to 10 Hz cycles, 15 minutes per cycle. 2 hours in each axis X, Y, and Z.	
Drop Test	Drop the speakers onto a 40mm thick board 10 times from a height of 75cm.	
Load Test	Pink noise is applied at the speakers rated power for 96 hours at room temperature	

After each test, the speaker's SPL shall be ±3 dB of the original SPL

Dimensions





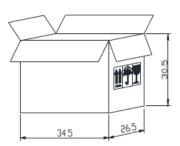
Packaging





25 pcs per tray 10trays for unit, 1units per carton Total:250 pcs per box

Size:34.5*26.5*30.5cm



This document contains data proprietary to PUI Audio Inc. Any use or reproduction, in any form, without prior written permission of PUI Audio Inc. is prohibited.

© 2017, PUI Audio Inc.

Specifications Revisions

Revision	Description	Date
	Released from Engineering	5/11/2017
	Updated Weight and added	
A	Packaging Specifications	7/13/2017

Note:

- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ± 0.5 mm and angles are $\pm 3^{\circ}$.
- 2. Specifications subject to change or withdrawal without notice.
- 3. This part is RoHS 2011/65/EU Compliant.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Speakers & Transducers category:

Click to view products by PUI Audio manufacturer:

Other Similar products are found below:

FC-30814-P127 AS02832MR-2-R PB-1220PE PB-2015PQ 900-00001 AB2025B-LW50-R SWFK-31736-000 PT-2065FW PT-4175W AT-2830-TW-LW35-R ED-30761-000 CI-30120-A42 SMT-0440-T-2-R PB-0927PQ BF-7083-000 BF-9778-000 MBS 3000-1811-A1AB08-0 SMS2020-08H4.5 LF BDT1717-08H6.5W56MLF 02094 02097 GSPK1003PN-8R0.2W-L100 GSPK151103TN-8R0.2W GSPK2014035PN-8R0.5W-L100 FS5353DS0830-H19.3 TE082703-8 XMLP040BD21F AS03608MR-LW100-R 24520 SMT-0540-S-2-R 1450069 9091653 9091661 IPS-G6000-5 9090231 FS4014-4-2W PBM4-13.B31R.A115.0663 PBM4-13.B33R.A115.0663 PBM4-13.B35R.A115.0663 A-10-6-BG360-HD1Z-GA-M4Z-ZW A-10-6-BG410-HD1Z-AA-AGZ-ZW A-10-6-BG410-HD1Z-AA-M4Z-ZW A-10-6-BG310-HD1Z-GA-M4Z-ZW A-10-6-BG310-HD1Z-AA-AGZ-ZW A-10-6-BG310-HD1Z-AA-AGZ-ZW A-10-6-BG310-HD1Z-AA-AGZ-ZW A-10-6-BG325-HD1Z-AA-AGZ-ZW