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Data Sheet

AS03604MR-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.

A black poly dome-capped paper diaphragm combines with a rubber surround for moisture resistance on the 36mm diameter **AS03604MR-N50-R**. High power handling (conservatively rated at 3 watts, 5 watts peak) is achieved through the use of a cupped spider.

Features:

- Black poly cone and rubber surround
- High 85 dB output at 1W/50cm
- N50 neodymium motor
- Only 17.5mm thick
- 2.5mm of excursion

Specifications

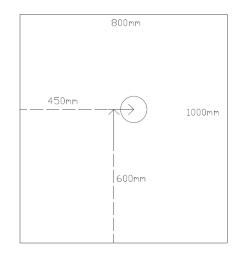
Parameters	Values	Units
Rated Input Power	3	Watts
Max Input Power	5	Watts
Impedance	4 ± 15%	Ohms
Sensitivity (SPL @ 1W/50cm)		
(800, 1000, 1200, and 1500 Hz)	85 ± 3	dBA
Distortion (Max @ 1W, 1 kHz)	<5%	
Resonant Frequency	200 ± 20%	Hz
Frequency Range	150 ~ 20,000	Hz
Housing Material	ABS	
Magnet Material	NdFeB	
Weight	20.2	Grams

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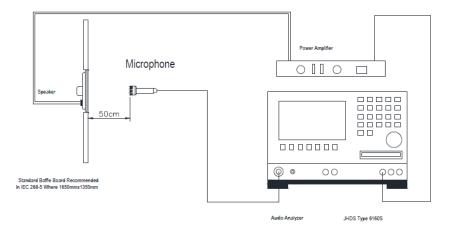
Specifications (continued)

Buzz, Rattle, etc.	Should not be audible with 4.47Vpk sine wave from 200 Hz to 20 kHz	
Polarity	When positive voltage is applied to the positive terminal, the diaphragm will move outward	
Operating Temperature	-20 ~ +50	°C
Storage Temperature	-30 ~ +60	°C

Measurement Method



Test Baffle (speaker mounted in circle)



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Frequency Response (measured at 50cm with 1W input power)

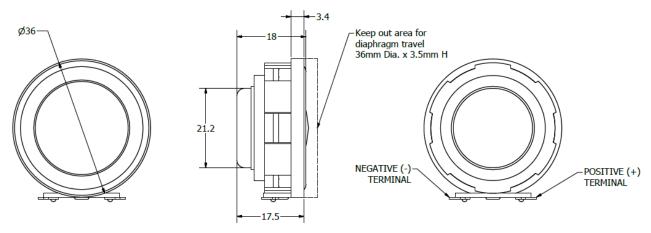
Reliability Testing

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	

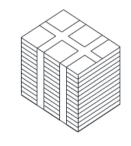
After each test, the speaker's SPL shall be ±3 dB of the original SPL

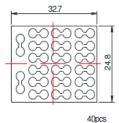
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Dimensions

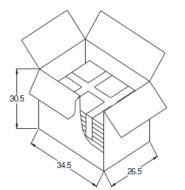


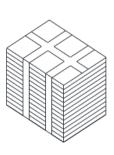
Packaging











40 pcs per tray 240 trays for unit, 2 units per carton Total:480pcs per box Size:34.5*26.5*30.5cm

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Specifications Revisions			
Revision	Description	Date	
	Released from Engineering	5/11/2017	
	Updated Weight and added		
А	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.

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X-ON Electronics

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 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
 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
 FS50MS0820-H9.7
 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-AGZ-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-AGZ-ZW

 HD1Z-GA-M4Z-ZW
 A-10-6-BG316-HD1Z-AA-AGZ-ZW
 A-10-6-BG316-HD1Z-AA-AGZ-ZW
 A-10-6-BG325-HD1Z-AA-AGZ-ZW
 A-10-6-BG325-HD1Z-AA-AGZ-ZW