

Data Sheet AR03032MR-2

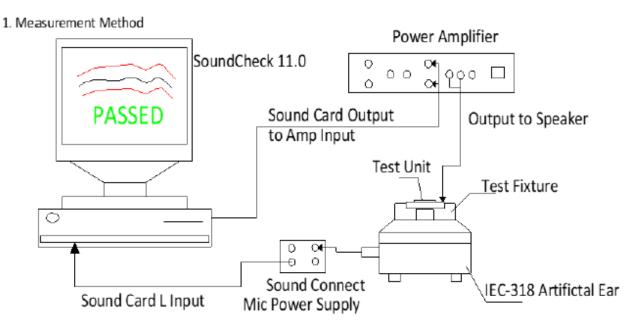
#### **Features:**

- Low 130 Hz resonant frequency
- High 129 dB output with 800mV in Artificial Ear (1cm)
- High 25mW max input power

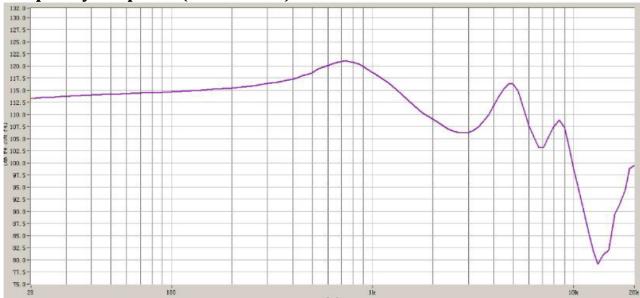
### **Specifications**

Parameters	Values	Units
Rated Input Power	15	mWatts
Max Input Power	25	mWatts
Impedance	32 ± 15%	Ohms
Sensitivity (SPL @ 1kHz, 1mV)	129 ± 3	dB Pa/V
Resonant Frequency	130 ± 20%	Hz
Frequency Range	20 ~ 20,000	Hz
Distortion (@ 50 ~ 3000 Hz/ 3mW)	5% Max	<u>-</u>
Frame Material	Plastic	•
Magnet Material	NdFeB	•
Diaphragm Material	PET	•
Weight	2	Grams
Environmental Compliances	ROHS/REACH	•
Buzz, Rattle, etc.	Should not be audible with 693 mV sine wave from 50 Hz to 4 kHz	-
Polarity	When positive voltage is applied to the positive terminal, the diaphragm will move outward	-
Operating Temperature	-20 ~ +60	°C
Storage Temperature	-20 ~ +60	°C

# $Measurement\ Method\ \ (\text{measured with 1mV}, \text{Temperature: 25} \sim 35^{\circ}\text{C}, \text{Relative Humidity: 25}\% \sim 75\%)$



## Frequency Response (measured at 1mV)

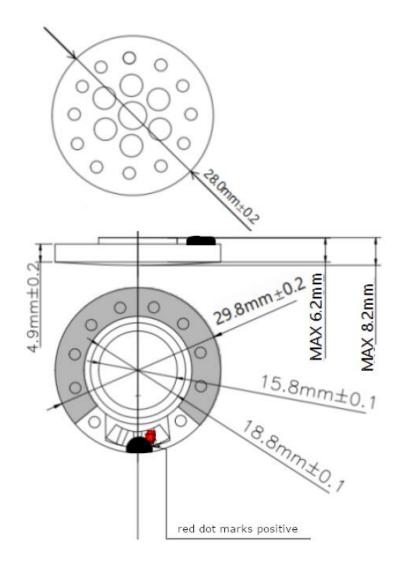


**Reliability Testing** 

Type of Test	Test Specifications
High Temperature Test	48 hours at +60°C ± 2°C
Low Temperature Test	48 hours at -20°C ± 2°C
Humidity Test	24 hours at +50°C $\pm$ 2°C with relative humidity at 90~95% relative humidity
Temperature Cycle Testing	The part shall be subjected to 15 cycles. One cycle shall be 2 hours and consist of: 50°C+1°C/0.5h→20°C/0.5h→-20°C/0.5h→20°C/0.5h
Vibration Test	Frequency 15~55 Hz, Amplitude 1.5 mm for 2 hours
Drop Test	100 cm free fall on concrete floor, 10 times

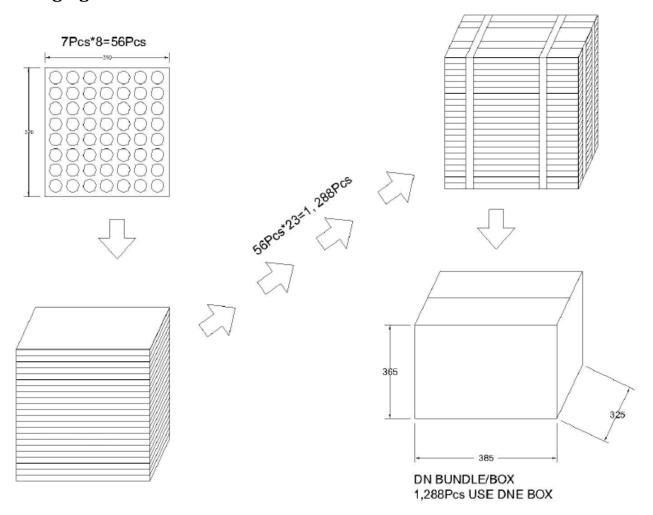
After each test, the speaker's SPL shall be  $\pm 4$  dB of the original SPL after 1 hour of recovery.

### **Dimensions**



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## **Packaging**



**Specifications Revisions** 

Revision	Description	Date	Approved
Α	Released from Engineering	3/21/2025	JD
В	Revised Drawing	6/13/2025	JD

#### Note:

- 1. Unless otherwise specified:
  - A. All dimensions are in millimeters.
  - B. Default tolerances are  $\pm 0.5$ mm and angles are  $\pm 3^{\circ}$ .
- 2. Specifications subject to change or withdrawal without notice.