

Data Sheet AR03032MR-3

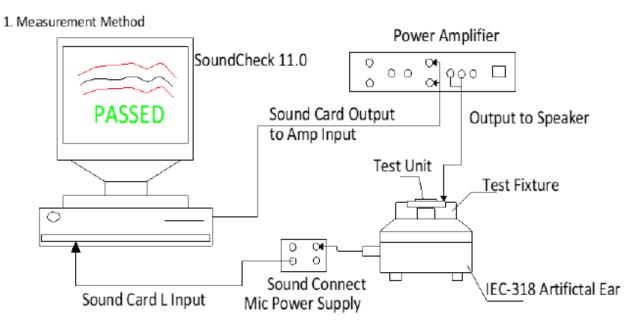
Features:

- Low 160 Hz resonant frequency
- High 133 dB output with 800mV in Artificial Ear (1cm)
- High 25mW max input power

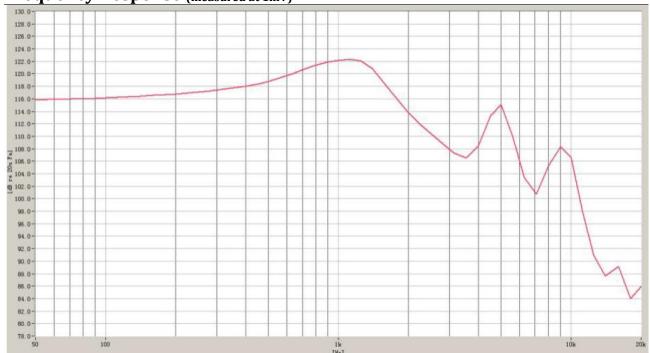
Specifications

Parameters	Values	Units
Rated Input Power	15	mWatts
Max Input Power	25	mWatts
Impedance	32 ± 15%	Ohms
Sensitivity (SPL @ 1kHz, 1mV)	133 ± 3	dB Pa/V
Resonant Frequency	160 ± 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)

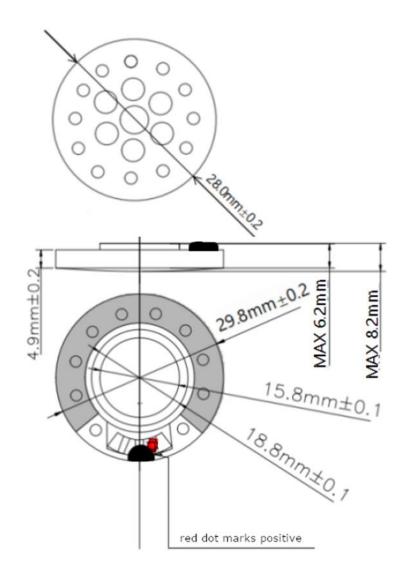


Reliability Testing

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 ± 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: $50^{\circ}\text{C}+1^{\circ}\text{C}/0.5\text{h}\rightarrow20^{\circ}\text{C}/0.5\text{h}\rightarrow-20^{\circ}\text{C}/0.5\text{h}\rightarrow20^{\circ}\text{C}/0.5\text{h}$
Vibration Test	Frequency 15~55 Hz, Amplitude 1.5 mm for 2 hours
Drop Test	100 cm free fall on concrete floor, 10 times

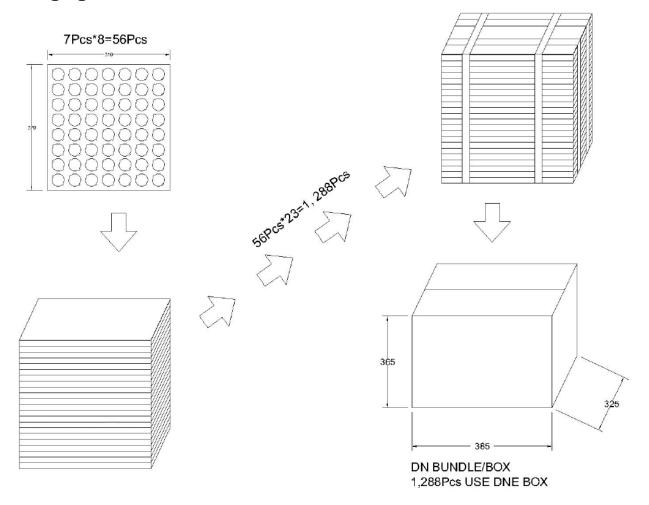
After each test, the speaker's SPL shall be ±4 dB of the original SPL after 1 hour of recovery.

Dimensions



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Packaging



Specifications Revisions

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

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.