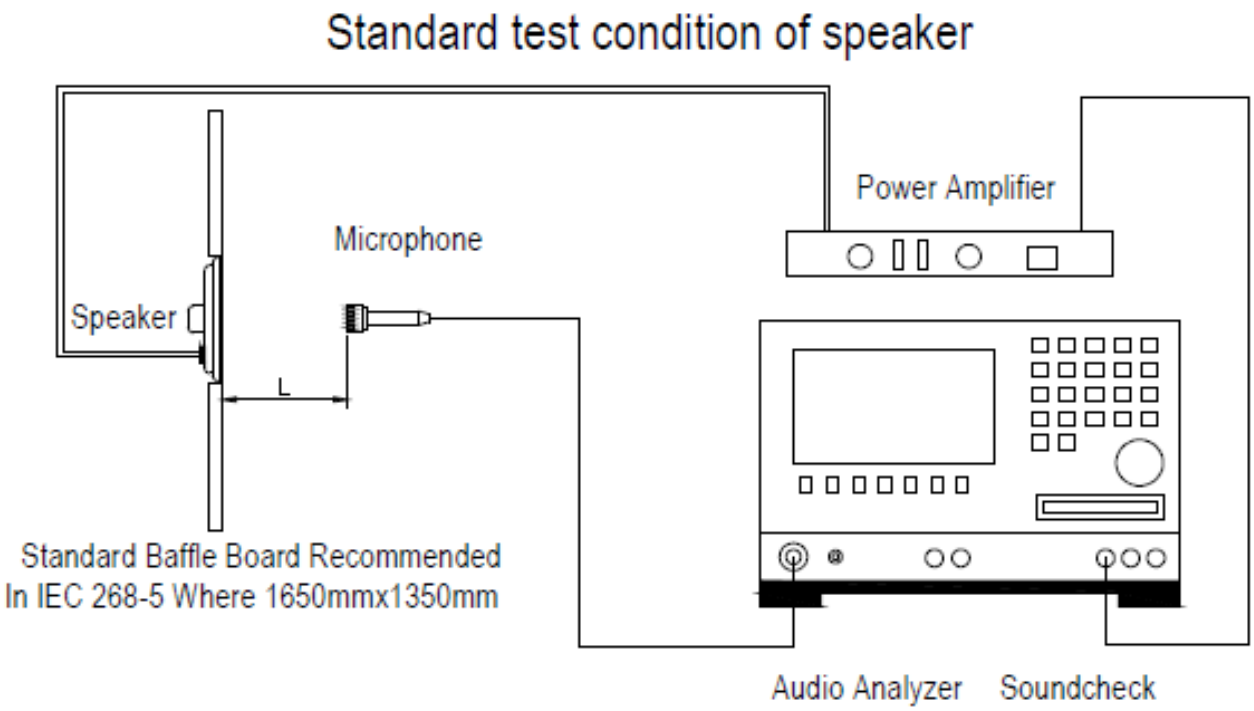
PUIaudio

Data Sheet	AS02204MR-N50-LW40-R

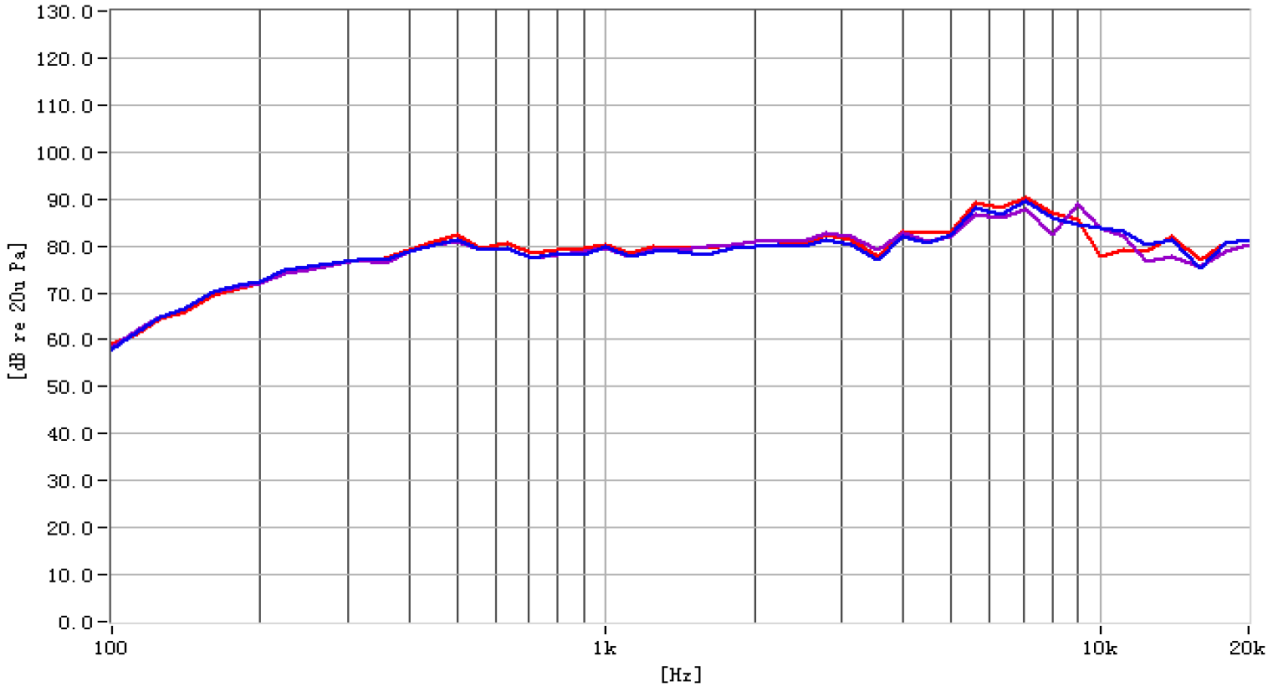
Specifications

Parameters	Values	Units
Rated Input Power	2.0	Watts
Max Input Power	2.5	Watts
Impedance	4 ± 15%	Ohms
Output SPL *(Avg. 0.8k, 1.0k, 1.2k, 1.5kHz @ 1.0W/0.5m)*	79 ± 3	dB
Resonant Frequency (f_0)	400 ± 20%	Hz
Frequency Range	f_0 ~ 20,000	Hz
THD *(1kHz, 2.0W Drive)*	≤5	%
Diaphragm Material	Mylar	-
Frame Material	ABS	-
Magnet Material	NdFeB	-
Weight	5.5	Grams
Buzz, Rattle, etc.	Must not be audible with $2.0V_{RMS}$ sine wave between f_0 ~ 5kHz	-
Environmental Protection Rating	ROHS/REACH	-
Polarity	Cone moves forward with positive dc current applied to "+" terminal	-
Storage Temperature	-30 ~ 70	°C
Operating Temperature	-25 ~ 60	°C

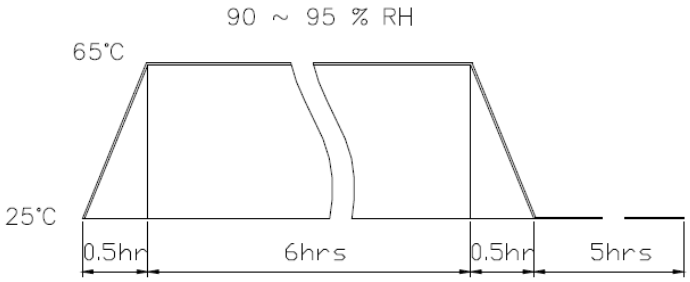
Measurement Method (Measured with 2Vrms @ 50cm, Temperature: 15 ~ 35°C, Relative Humidity: 25%~70%)



Typical Frequency Response (Measured with 1W drive, distance = 50cm)

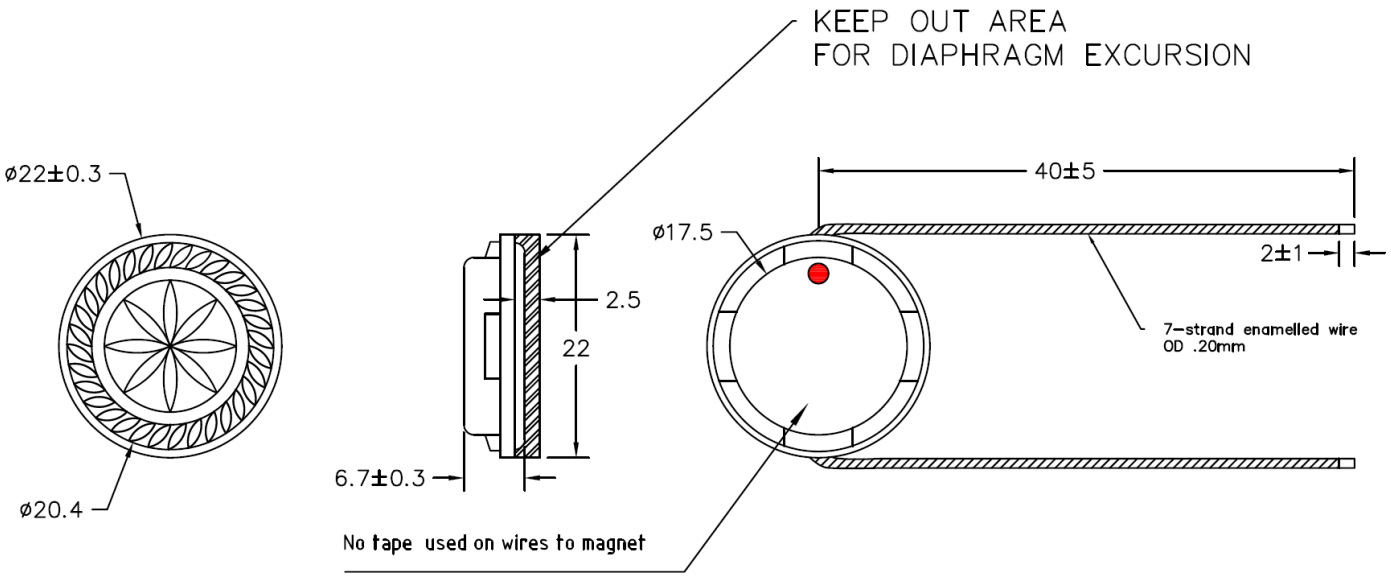


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at 70±3°C
Low Temperature Test	96 hours at -30±3°C
Humidity Test	96 hours at 30±3°C with relative humidity at 92~95%
Temperature Cycle Testing	Run for 4 cycles with each cycle consisting of: 
Vibration Test	Frequency: 30Hz ± 15Hz Amplitude: 1.5mm Duration: 3 hours each of 3 perpendicular directions
Drop Test	Free drop from 75cm onto concrete floor 10 times.
Load Test	Must perform normal with program Pink-Noise source at Rated Power for 24 Hours at room temperature.

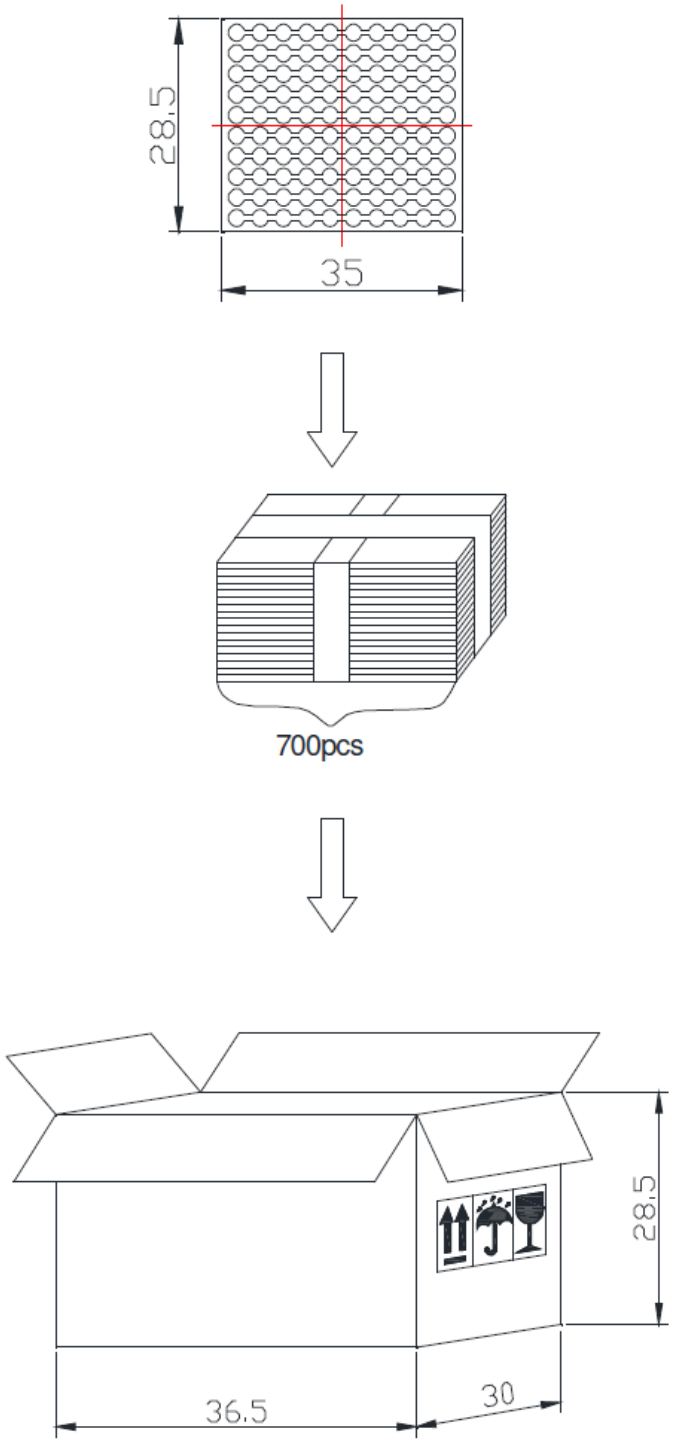
After each test let rest for 6 hours in standard room temperature, the part shall be within ±3dB.

Dimensions



Packaging

50 pcs per tray
14 trays for unit, 2 units per carton
Total: 700pcs per box
Size: 36.5*30*28.5cm



Specifications Revisions

Revision	Description	Date
A	Released from Engineering	06/03/2021

Note:

1. Unless otherwise specified:
    A. All dimensions are in millimeters.
    B. Default tolerances are ±0.5mm and angles are ±3°.
2. Specifications subject to change or withdrawal without notice.