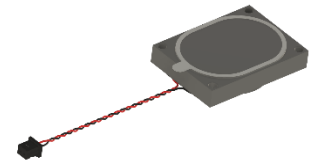




PUIaudio



Data Sheet

AS02808MS-LWC100

The AS02808MS-LWC100 is designed for applications such as hand-held devices, portable devices, and devices that value compact design.

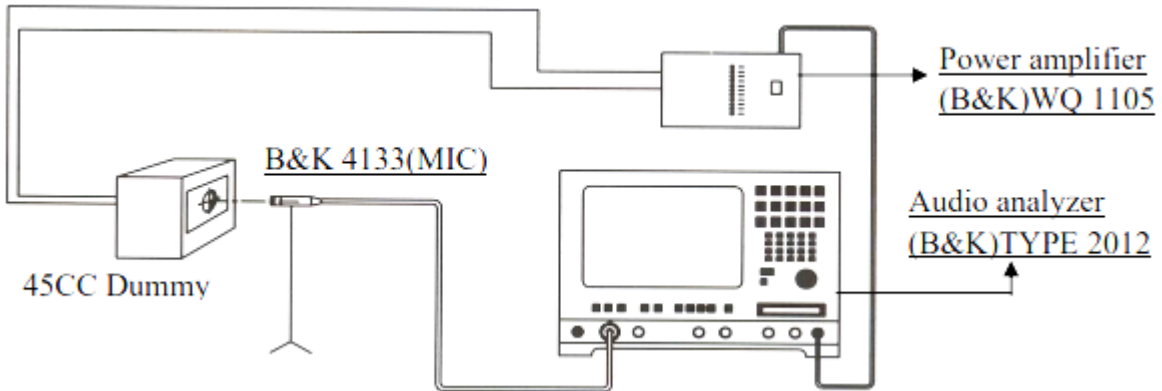
Features:

- 90dB SPL: PDRIVE = 0.1W, distance = 0.1m
- 1.0W continuous dissipation
- 550Hz free-air resonance
- 28mm x 20mm X 6.8mm dimensions
- Lead Wire Connector assembly for easy implementation

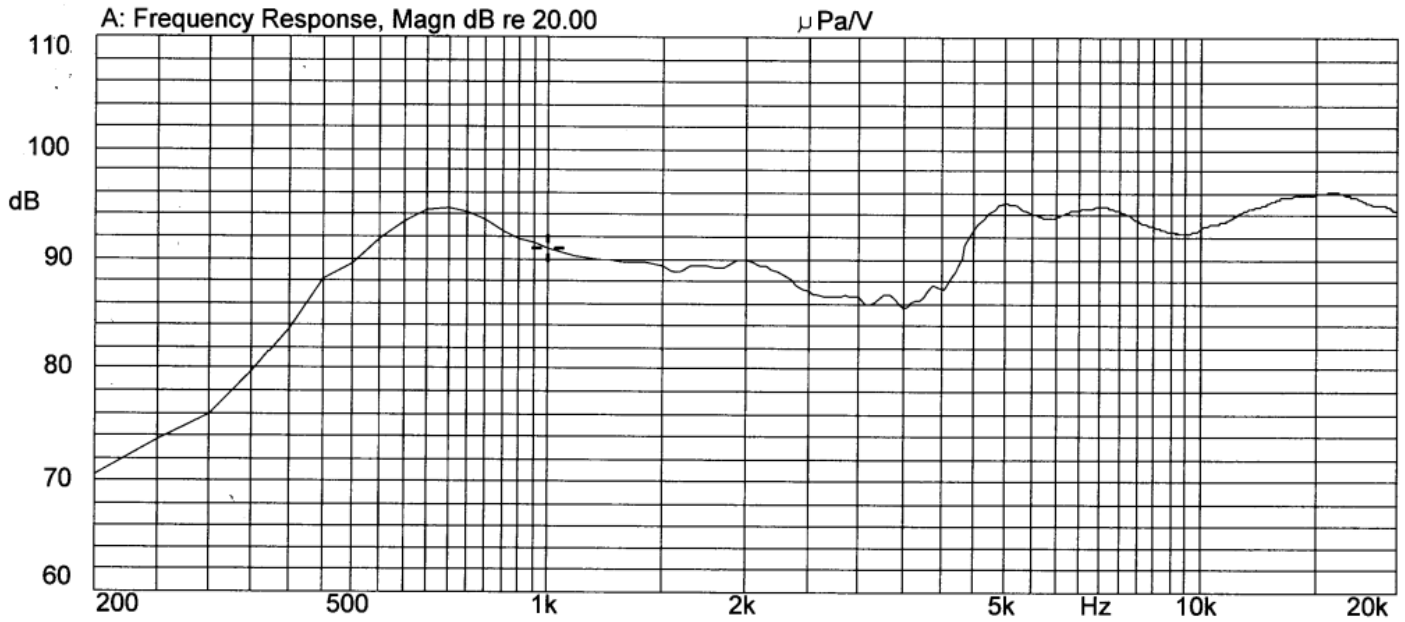
Specifications

Parameters	Values	Units
Rated Input Power	1	Watts
Max Input Power	1.5	Watts
Impedance	8	Ohms
Output SPL (AT 0.8K, 1K, 1.2K, 1.5K Hz; 0.1W, 0.1m)	90±3	dB
Resonant Frequency (at 1V)	550±20%	Hz
Frequency Range (based on -10 dB limits on frequency response graph)	550 ~ 20KHz	Hz
THD (at 1KHz, 0.1W)	< 5%	
Magnet Material	NdFeB	-
Diaphragm Material	PEN	-
Weight	6.3	Grams
Buzz, Rattle, etc.	Not be audible at 2.83 V sine wave, 550 ~ 20 KHz	-
Environmental Compliances	ROHS/REACH	-
Polarity	When a positive D.C current is applied to the voice coil terminal marked (+), the diaphragm shall move forward	-
Storage Temperature	-40°C ~ +70°C	°C
Operating Temperature	-40°C ~ +60°C	°C

Measurement Method (0.1m, 0.1W)



Typical Frequency Response (0.1m, 0.1W)

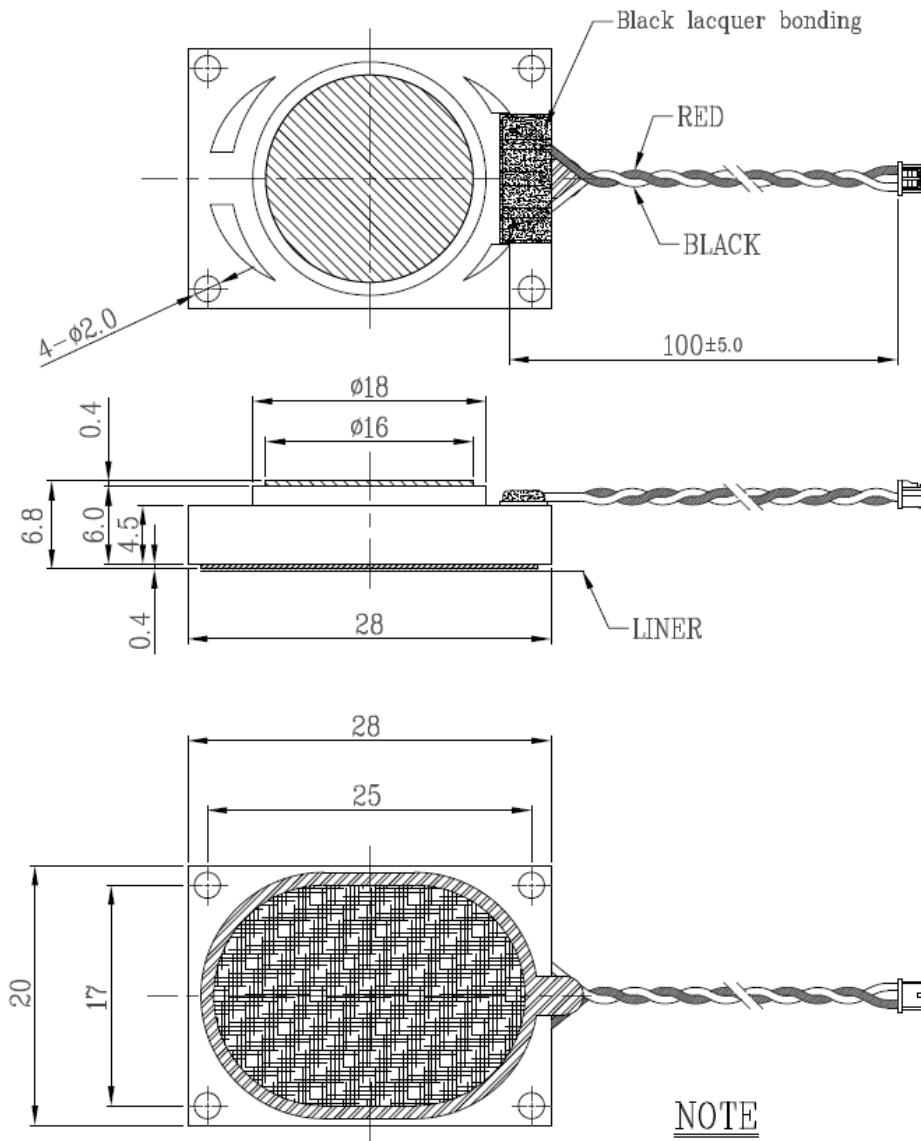


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C, then 6 hours at room temperature
Low Temperature Test	96 hours at -40°C, then 6 hours at room temperature
Humidity Test	+40°C with 90% of RH, then 6 hours at room temperature.
Drop Test	Drop from a height of 1m onto concrete surface.
Load Test	White noise at 1 W. / (2.83V) for 96 hours.

After tests, SPL shall not deviate within ± 3 dB from pre-test measurements.

Dimensions



NOTE

1. WIRE: (UL1571/AWG28)
2. COLOR: (RED/BLACK)
3. CONNECTOR: (H: 51021-02)

Packaging

- 1 tray 50 pcs
- 1 box 20~22 trays
- 1 box 1,000~1,100 pcs

Specifications Revisions

Revision	Description	Date	Approved
A	Released from Engineering	11/4/2025	JD

Note:

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