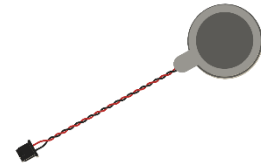




PUI audio



Data Sheet

AS01708MR-LWC50-HT

The AS01708MR-LWC50-HT is designed for applications such as hand-held devices, portable devices, and devices that value compact design.

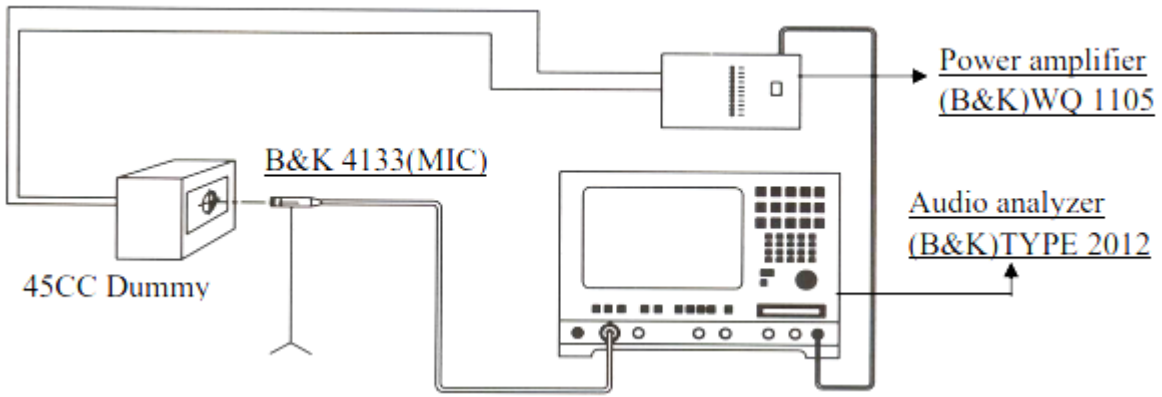
Features:

- 95dB SPL: PDRIVE = 0.1W, distance = 0.1m
- 0.8W continuous dissipation
- 950Hz free-air resonance
- 17mm diameter x 4.25mm dimensions
- Lead Wire Connector assembly for easy implementation

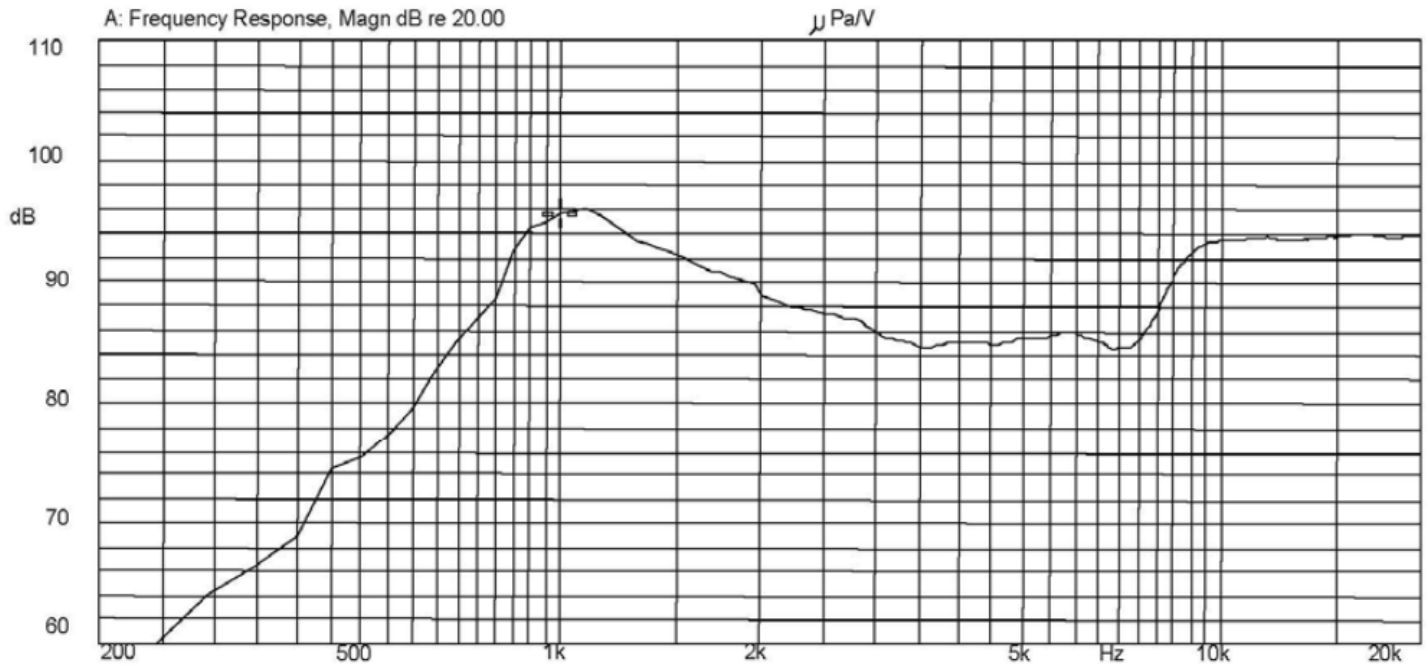
Specifications

Parameters	Values	Units
Rated Input Power	0.8	Watts
Max Input Power	1.2	Watts
Impedance	8	Ohms
Output SPL (@0.8K, 1K, 1.2K, 1.5K Hz; 0.1W, 0.1m)	95±3	dB
Resonant Frequency (at 1V)	950 ± 20%	Hz
Frequency Range (based on -10 dB limits on frequency response graph)	950 ~ 20KHz	Hz
THD (at 1KHz, 0.1W)	5%	
Frame Material	PBT	-
Magnet Material	NdFeB	-
Diaphragm Material	P.E.N	-
Weight	1.4	Grams
Buzz, Rattle, etc.	Must be nominal at sine wave 2.53V	-
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 ~ +85°C	°C
Operating Temperature	-20°C ~ +70°C	°C

Measurement Method (0.1m, 0.1W)



Typical Frequency Response (0.1m, 0.1W)

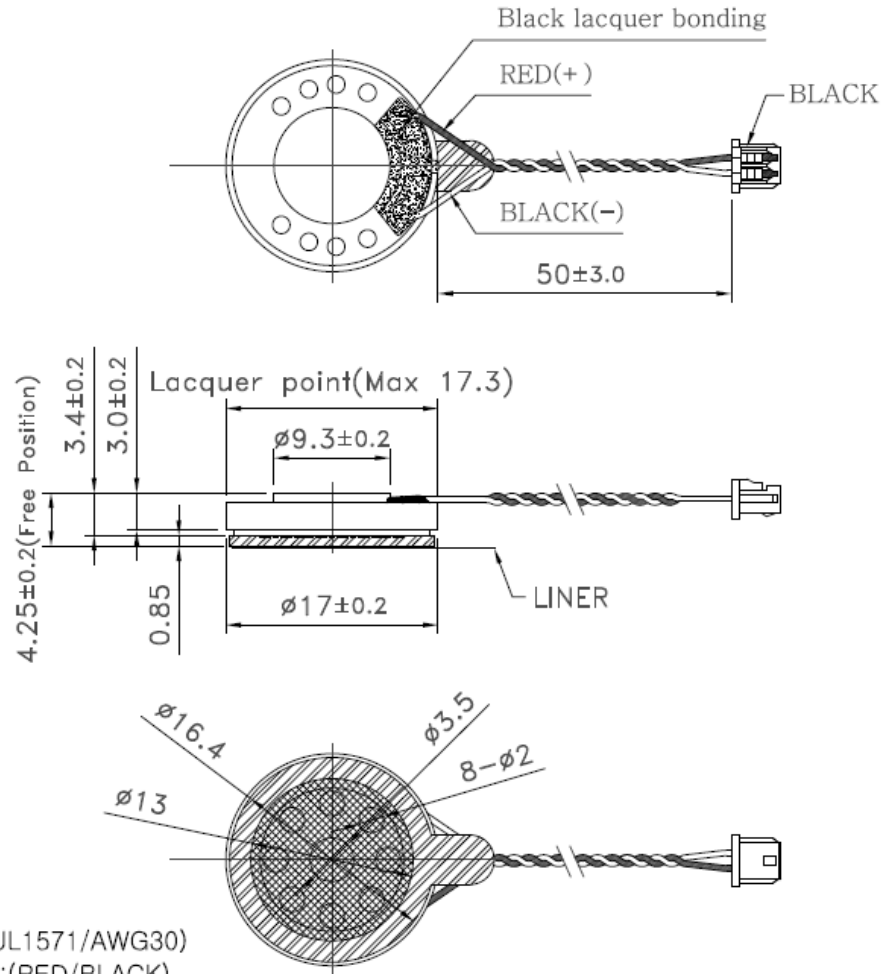


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C, then 0.5 hours at room temperature
Low Temperature Test	96 hours at -40°C, then 0.5 hours at room temperature
Humidity Test	+40°C with 95% of RH, then 0.5 hours at room temperature.
Temperature Cycle Testing	One cycle shall consist of 30 minutes at 85°C followed by 30 minutes at -40°C. Allow 30 minutes of transition time at +25°C between temperature extremes. Total of 50 cycle
Vibration Test	Amplitude of 1.52mm, 10~55 Hz, in x and y axis for 2 hr.
Drop Test	Free-drop each 5 sides of dummy on steel surface. 3 times
Load Test	White noise for 96 hours.

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

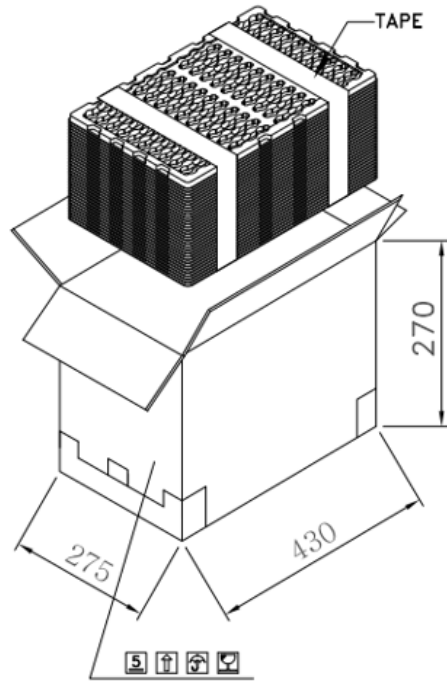
Dimensions



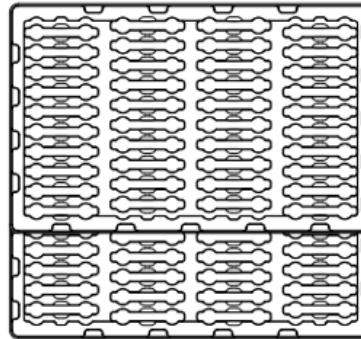
NOTE

- 1.WIRE:(UL1571/AWG30)
- 2.COLOR:(RED/BLACK)
- 3.HOUSING:(51021-8602 BLACK)

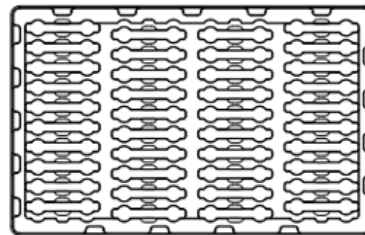
Packaging



1 CARTON=2,400 PCS



80x30=2,400 PCS



10x8=80 PCS

Specifications Revisions

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

Note:

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