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Data Sheet

AS01508MS-SC15-WP-R

PUI Audio's **Mobile Series** line of speakers and receivers is designed for cuttingedge applications such as smart watches and pendants, Wi-Fi enabled security devices and action cameras, mobile radios and smart phones, as well as IoT devices. Each **Mobile Series** product features an IP67-rated face for protection against dust and water ingress.

The eight ohm 15mm x 11mm **AS01508MS-SC15-WP-R** speaker is designed for high fidelity audio reproduction in the thinnest size possible—only 2.5mm thick! Spring contacts provide convenient connection.

Features:

- PEEK diaphragm for flat frequency response
- 91 dB output (2V @ 10cm)
- High-energy neodymium motor
- Only 2.5 mm thick
- Dustproof and waterproof IP67-rated face

Specifications

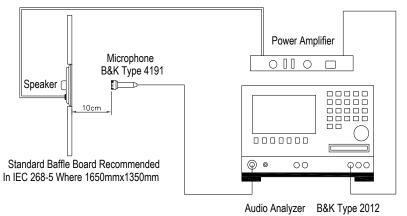
Parameters	Values	Units
Rated Input Power	0.7	Watts
Max Input Power	1	Watts
Impedance	8 ± 20%	Ohms
Sensitivity (SPL @ 2V/10cm)		
Average 0.8, 1.0, 1.5, 2.0 kHz	91 ± 3	dB
Resonant Frequency		
(free air/in 1cc enclosure)	550 ± 20% / 850 ± 20%	Hz
Frequency Range	550 ~ 20,000	Hz
Frame Material	PBT	-
Magnet Material	NdFeB	-
Weight	1.5	Grams
Environmental Protection Rating	IP67	-

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Specifications (continued)

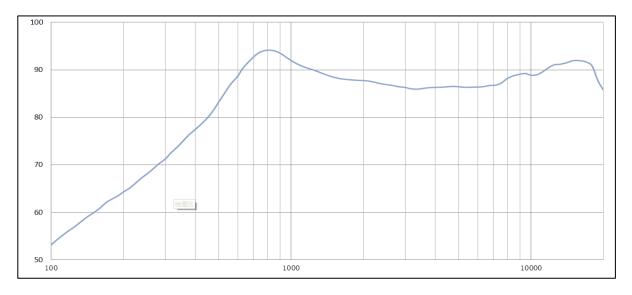
Buzz, Rattle, etc.	Should not be audible with 2V sine wave from 300 Hz to 3.4 kHz	-
Polarity	When positive voltage is applied to the positive terminal, the diaphragm will move outward	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-20 ~ +70	°C

Measurement Method (measured with 2V, Temperature: 15 ~ 35°C, Relative Humidity: 25%~70%)



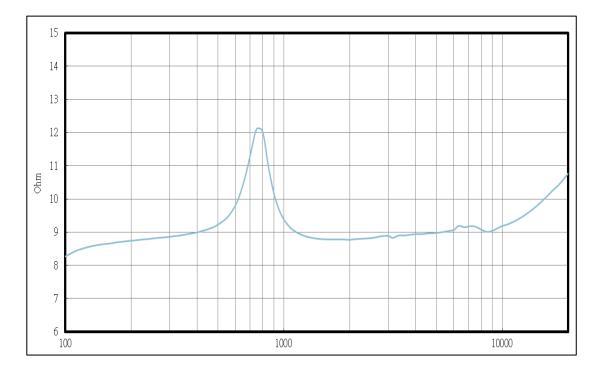
Standard test condition of speaker

Frequency Response (measured with 2V @ 10cm in 10cc enclosure)



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Impedance Response (Measured with speaker in a 10cc enclosure)



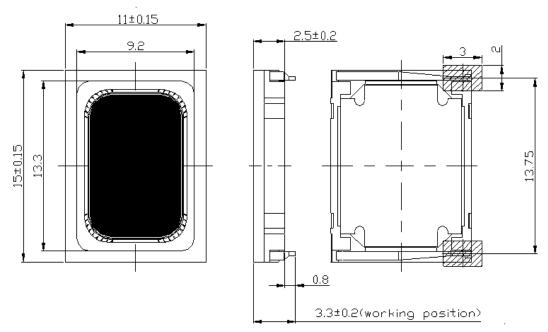
Reliability Testing

Type of Test	Test Specifications
	96 hours at +85°C ± 3°C followed by three hours in
High Temperature Test	normal room temperature
	96 hours at -40° C ± 3°C followed by three hours in
Low Temperature Test	normal room temperature
	96 hours at $+40^{\circ}$ C \pm 3°C with relative humidity at
	90%~95% followed by 6 hours in normal room
Humidity Test	temperature
	The part shall be subjected to 12 cycles using the
	following procedure:
Temperature Cycle Testing	Low temperature: -40°C±3°C
	High temperature:+80°C±3°C
	Cycle: 2 hours at High, 5 minutes High to Low, 2
	hours at Low, 5 minutes Low to High
	10 to 55 to 10 Hz sine sweep, per minute @
	1.5mm amplitude
Vibration Test	2 hours in each axis X, Y, and Z
	Mount speaker to 100g fixture, drop fixture 1.5
Drop Test	meters, twice per side and twice for each corner
	White noise is applied at the speakers rated power
	for 96 hours at room temperature with speaker in
Load Test	1cc enclosure

After each test, the speaker's SPL shall be ±3 dB of the original SPL

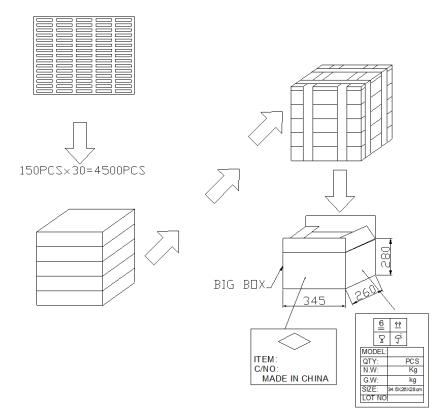
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Dimensions (Bottom. contact is positive on the far right drawing below)



Packaging

150PCS×1=150PCS



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