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Data Sheet

AS01508MS-SP11-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-SP11-WP-R** speaker is designed for high fidelity audio reproduction in the thinnest size possible—only 3.5mm thick! Solder pads allow for lead wire attachment.

Features:

- PEEK diaphragm for flat frequency response
- 89 dB output (2V @ 10cm)
- High-energy neodymium motor
- Only 3.5 mm thick
- Dustproof and waterproof IP67-rated face

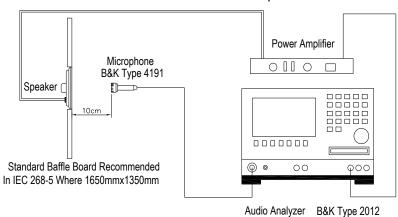
Specifications

Parameters	Values	Units
Rated Input Power	0.7	Watts
Max Input Power	1	Watts
Impedance	8 ± 15%	Ohms
Sensitivity (SPL @ 2V/10cm)		
Average 0.8, 1.0, 1.5, 2.0 kHz	89 ± 3	dB
Resonant Frequency		
(free air)	600 ± 20%	Hz
Frequency Range	600 ~ 20,000	Hz
Frame Material	PBT	-
Magnet Material	NdFeB	-
Weight	1.5	Grams
Environmental Protection Rating	IP67	-

Specifications (continued)

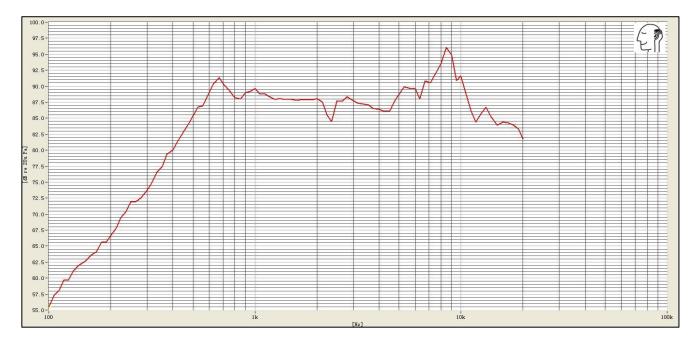
Buzz, Rattle, etc.	Should not be audible with 2.37V sine wave from 300 Hz to 3.4 kHz	-
Polarity	When positive voltage is applied to the positive terminal, the diaphragm will move outward	-
Storage Temperature	-40 ~ +80	°C
Operating Temperature	-20 ~ +70	°C

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)



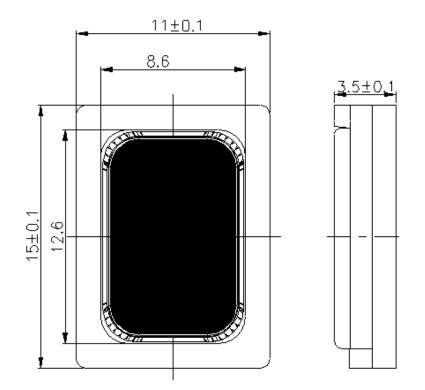
Reliability Testing

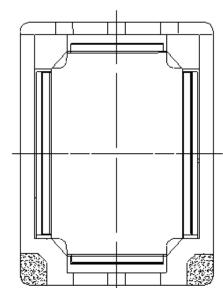
Type of Test	Test Specifications	
High Temperature Test	96 hours at +80°C ± 3°C followed by three hours in normal room temperature	
Low Temperature Test	96 hours at -40°C ± 3°C followed by three hours in normal room temperature	
Humidity Test	96 hours at +40°C ± 3°C with relative humidity at 90%~95%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

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

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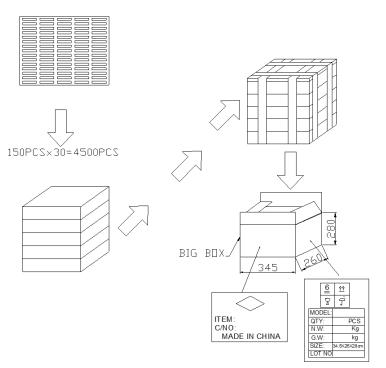
Dimensions (Right contact is positive on the far right drawing below)





Packaging

150PCS×1=150PCS



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Specifications Revisions				
Revision	Description	Date		
-	Released from Engineering	11/20/2017		

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.
- 3. This part is RoHS 2011/65/EU Compliant.

X-ON Electronics

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 SWFK-31736-000
 PT-2065FW
 PT-4175W
 AT

 2830-TW-LW35-R
 ED-30761-000
 CI-30120-A42
 SMT-0440-T-2-R
 PB-0927PQ
 BF-7083-000
 BF-9778-000
 SMS2020-08H4.5 LF

 BDT1717-08H6.5W56MLF
 02094
 02097
 GSPK1003PN-8R0.2W-L100
 GSPK151103TN-8R0.2W
 GSPK2014035PN-8R0.5W-L100

 FS5353DS0830-H19.3
 TE082703-8
 XMLP040BD21F
 AS03608MR-LW100-R
 24520
 SMT-0540-S-2-R
 1450069
 9091653
 9091661
 IPS

 G6000-5
 9090231
 FS50MS0820-H9.7
 FS4014-4-2W
 PBM4-13.B31R.A115.0663
 PBM4-13.B33R.A115.0663
 PBM4-13.B35R.A115.0663

 A-10-6-BG360-HD1Z-GA-M4Z-ZW
 A-10-6-BG410-HD1Z-AA-AGZ-ZW
 A-10-6-BG410-HD1Z-AA-AGZ-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-AGZ-ZW

 HD1Z-GA-M4Z-ZW
 A-10-6-BG316-HD1Z-AA-AGZ-ZW
 A-10-6-BG316-HD1Z-AA-AGZ-ZW
 A-10-6-BG325-HD1Z-AA-AGZ-ZW
 A-10-6-BG325-HD1Z-AA-AGZ-ZW