

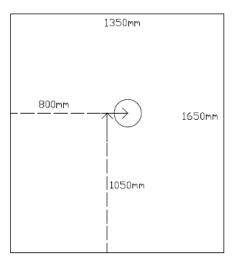
Data Sheet AS01508MS-SC14-WP

Specifications

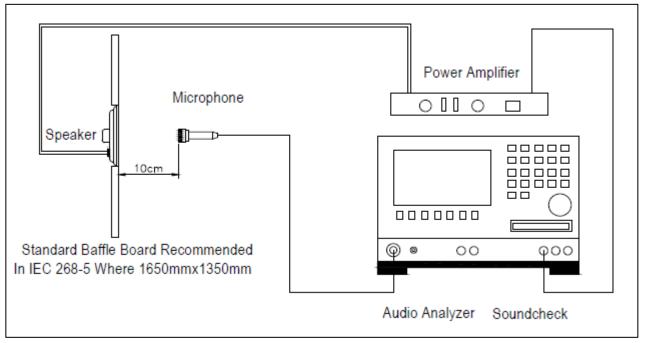
Parameters	Values		Units
Rated Input Power (1cc enclosure)	0.5		Watts
Max Input Power (1cc enclosure)	0.7		Watts
Impedance (1V input)	8 ± 15%		Ohms
DC Resistance	7 ± 0.7		Ohms
Output SPL (Average) (2kHz @ 0.894V/0.1m)	81.0 ± 3		dB
Resonant Frequency	1cc enclosure		
	Free Air	850 ± 20%	Hz
Frequency Range	Fo ~ 20k		Hz
THD	< 10%		
(1kHz @ 0.5W) (1cc enclosure)			-
Frame Material	PPA		-
Magnet Material	NdFeB		-
Diaphragm Material	Peek		-
Weight	1.5		Grams
Buzz, Rattle, etc.	Should not be audible		
(3cc enclosure)	when driven with sine wave		Fo~20k @ 2.1 V
Environmental Compliances	ROHS/REACH		-
Polarity	Cone moves forward when positive DC current is applied to (+) terminal		-
Storage Temperature	-40 ~ +85		°C
Operating Temperature	-30 ~ +70		°C
Ingress Protection	IPX8 (1.5m / 60min)		-

All specifications measured at $5 \sim 35^{\circ}$ C, $45 \sim 85^{\circ}$ RH, under $86 \sim 106$ kPa of pressure, unless otherwise noted.

Measurement Method

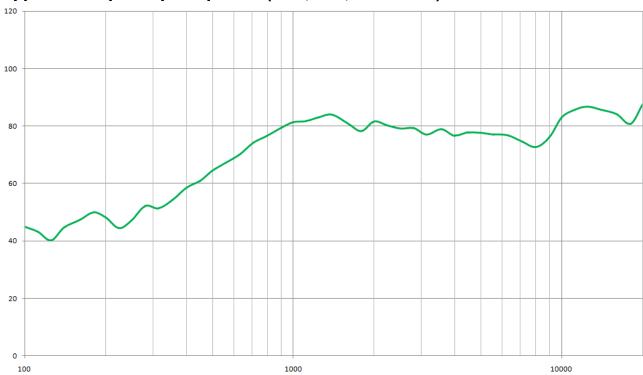


Block Diagram for Measurement Method

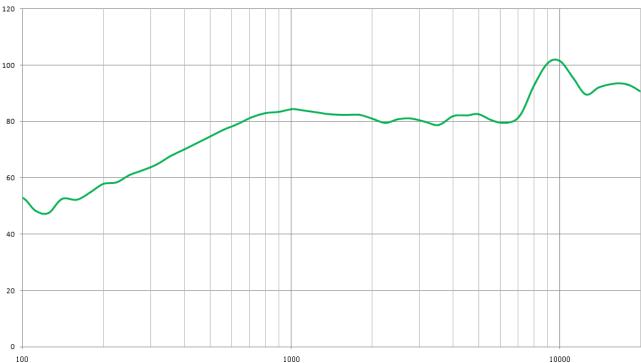


Speaker Test Setup

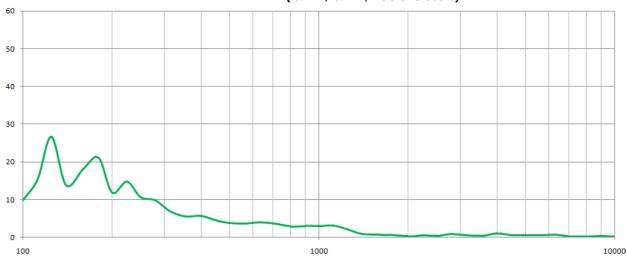
Typical Frequency Response (0.1W / 0.1M / 1cc enclosure)



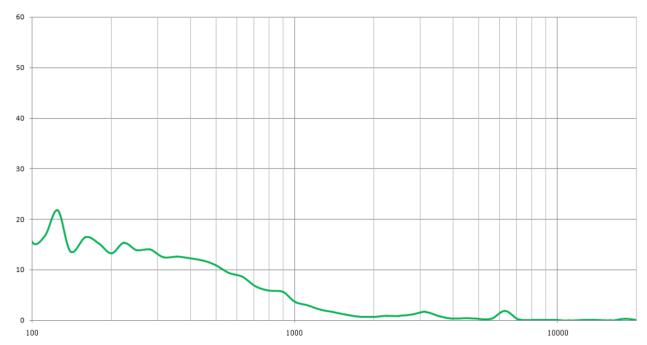
Typical Frequency Response (0.1W / 0.1M / Free Air)



Total Harmonic Distortion Curve (0.1W / 0.1M / 1cc enclosure)



Total Harmonic Distortion Curve (0.1W / 0.1M / Free Air)



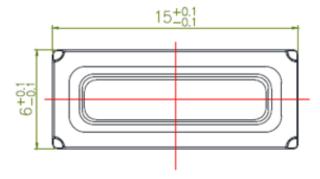
Reliability Testing

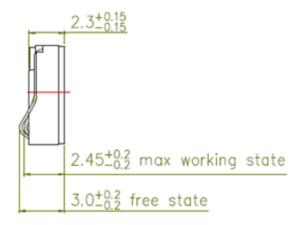
Type of Test	Test Specifications				
High Temperature Test	96 hours at +85°C				
Low Temperature Test	96 hours at -40°C				
Humidity Test	96 hours at +30±3°C, 92-95% RH				
	Part tested for 5 cycles, 6 hours per cycle according to the profile shown:				
Temperature Cycle Test	90 ~ 95 % RH 65°C 0.5hr 6hrs 0.5hr 5hrs				
	Frequency: 10~55~10Hz Oct/min				
	Amplitude: 1.5mm				
Vibration Test	Duration: 2 hours per 3 perpendicular directions (XYZ)				
Operation Life Test	Pink noise applied at rated power for 96 hours				
Drop Test	Dropped in a typical enclosure onto 40mm thick board from 75cm, 10x				
	3.0N applied to each terminal in horizontal direction for 30				
Termination Strength	seconds; 2.0N applied to each terminal in vertical direction for				
Test	30 seconds				

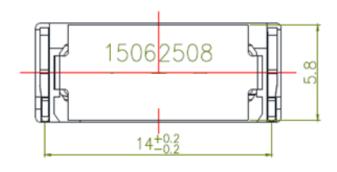
Parts should confirm to original performance within +/- 3dB following testing at rated power and a 6 hour rest period

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Dimensions (Tolerance: ±0.15mm, unless otherwise stated)

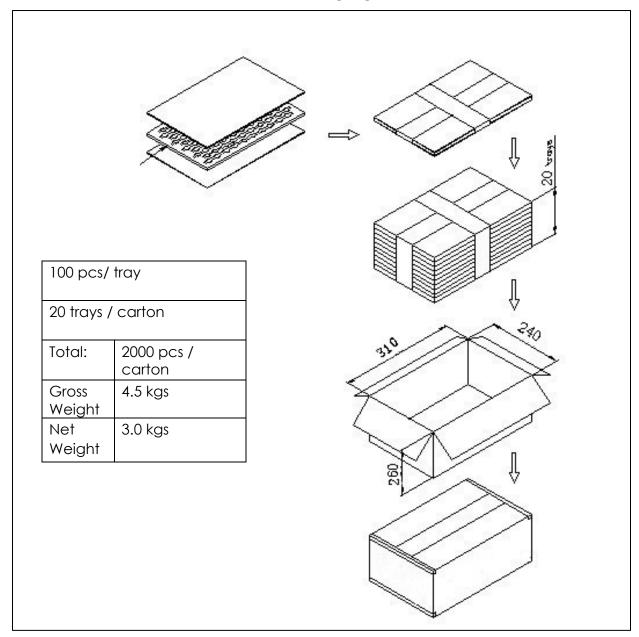






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Packaging



Specifications Revisions

Revision	Description	
Α	Released from Engineering	8/30/2023

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.