

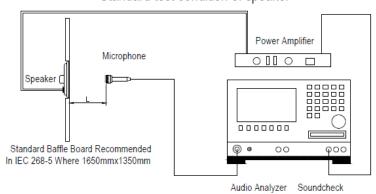
Data Sheet AS03808PR-R

Specifications

Parameters	Values	Units
Rated Input Power	0.1	Watts
Max Input Power	0.2	Watts
Impedance	8 ± 15%	Ohms
Sensitivity (Avg. 0.8, 1.0, 1.2, 1.5kHz @ 0.1W/0.1M)	92 ± 3	dBA
Distortion (Max @ 1.5W, 1 kHz)	<5%	•
Resonant Frequency	850 ± 20%	Hz
Frequency Range	Fo ~ 5,000	Hz
Housing Material	Metal	-
Diaphragm Material	Paper	-
Magnet Material	NdFeB	-
Weight	10.8	Grams
Ingress Protection Rating	-	-
Environmental Compliances	ROHS/REACH	1
Buzz, Rattle, etc.	Should not be audible with 0.894V sine wave from Fo-5kHz	
Polarity	When positive voltage is applied to the positive terminal, the diaphragm will move outward	
Operating Temperature	-20 ~ +60	°C
Storage Temperature	-30 ∼ +70	°C

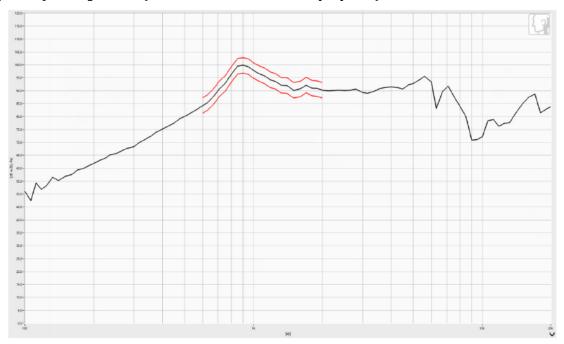
Measurement Method

Standard test condition of speaker



L=10cm

Frequency Response (measured at 0.1M with 0.1W input power)

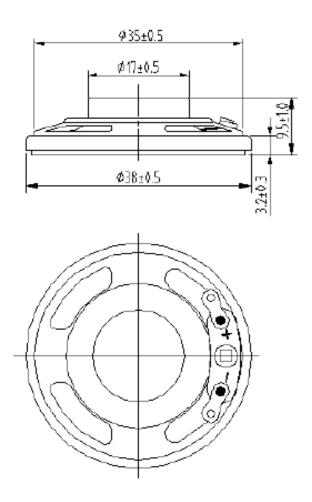


Reliability Testing

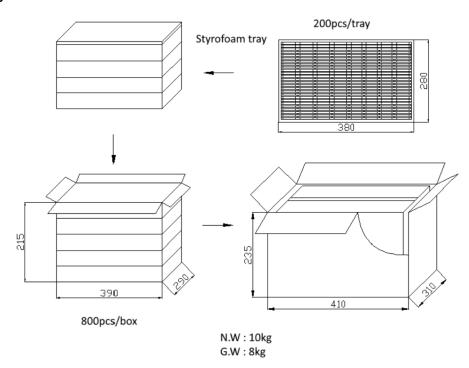
Renability Testing				
Type of Test	Test Specifications			
High Temperature Test	96 hours at 70°C, Random Humidity			
Low Temperature Test	96 hours at -30°C, Random Humidity			
Humidity Test	48 hours at 40°C with relative humidity at 90-95%			
Temperature Cycle Testing	+60°C +25°C -20°C 2hrs hr hr ahrs Expose part to 4 cycles of the above test.			
Vibration Test	Frequency 30 ± 15Hz, Amplitude 1.5mm for 3hrs.			
Drop Test	75cm free fall onto concrete floor, 10 times.			
Load Test	White-Noise at rated power for 96 hours.			

After each test, part shall conform to rated performance within ±3dB after 6 hours recovery.

Dimensions (Tolerance ±0.5mm unless otherwise noted)



Packaging



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Specifications Revisions

Revision	Description	Date	Approved
-	Released from Engineering	06/06/2006	-
A	Revised to Inventor 3D Template	12/08/2008	BR
В	Revised Electrical Parameters	03/17/2017	ML
С	Revised SPL, Resonant Frequency, speaker height	04/08/2024	ML
D	Add Reliability Tests, Change Packaging type and quantity	06/25/2024	ML

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.