Data Sheet	AS02008MO-R

Features:

- IP65-rated design for protection against dust and water
- 3M™ 55256 double-sided tape for easy installation
- Great frequency response and sensitivity

Speaker Specifications

Parameters	Values	Units
Rated Input Power	0.5	Watts
Max Input Power	1	Watts
Impedance	8 ± 15%	Ohms
Sensitivity @ 0.5W/0.1M (at 0.8, 1.0, 1.2, and 1.5 kHz)	94 ± 3	dB
Resonant Frequency	750 ± 20%	Hz
Frequency Range	400 ~ 20,000	Hz
Frame Material	ABS	-
Magnet Material	NdFeB	-
Weight	1.32	Grams
Ingress Protection Rating	IP65	-
Acceptable Soldering Methods	Hand Solder	-
Buzz, Rattle, etc.	2V	-
Environmental Compliances	RoHS	-
Polarity	Diaphragm shall move forward when a positive DC signal is applied to positive terminal	-
Storage Temperature	-40 to +85	°C
Operating Temperature	-40 to +85	°C

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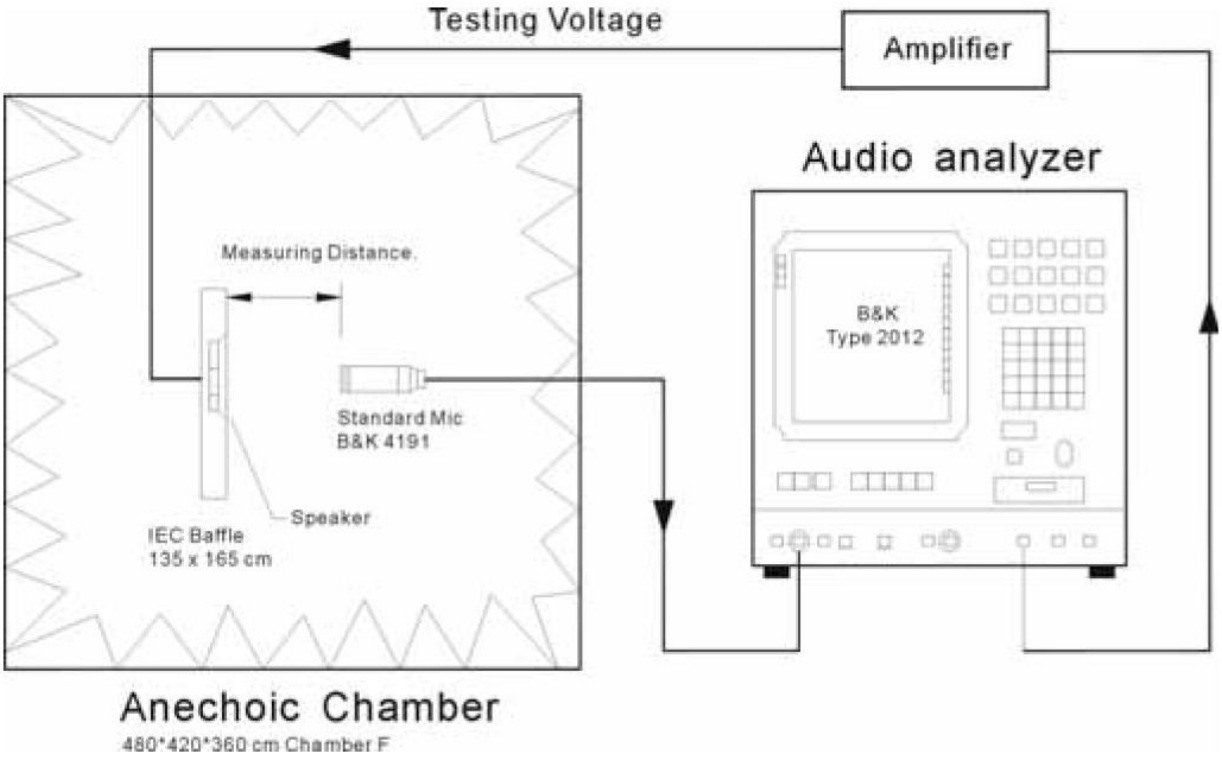
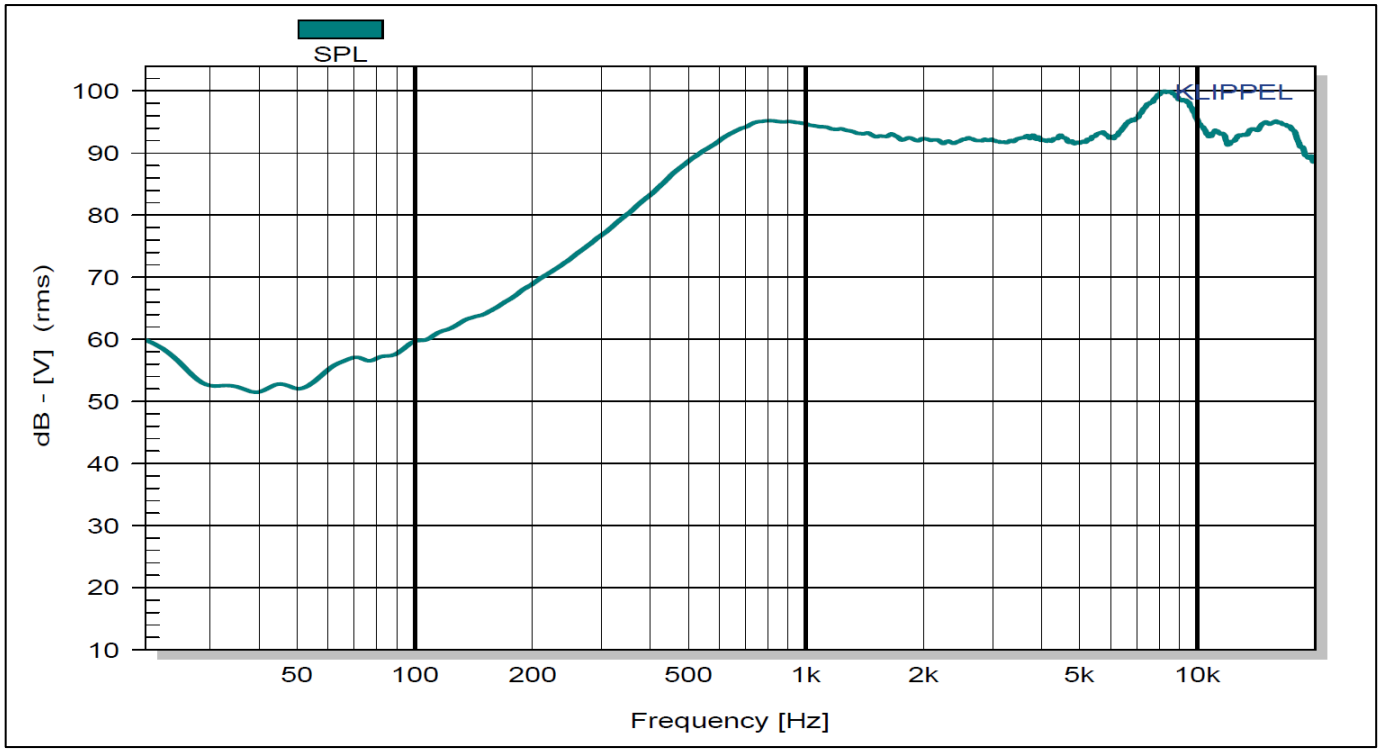
Measurement Method (Tested with 2V @ 10cm)



Typical Frequency Response (2V @ 10cm)



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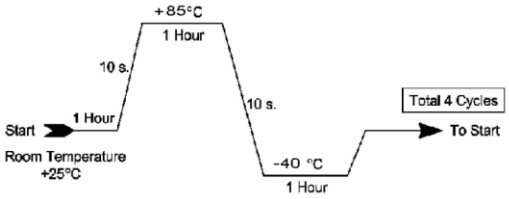
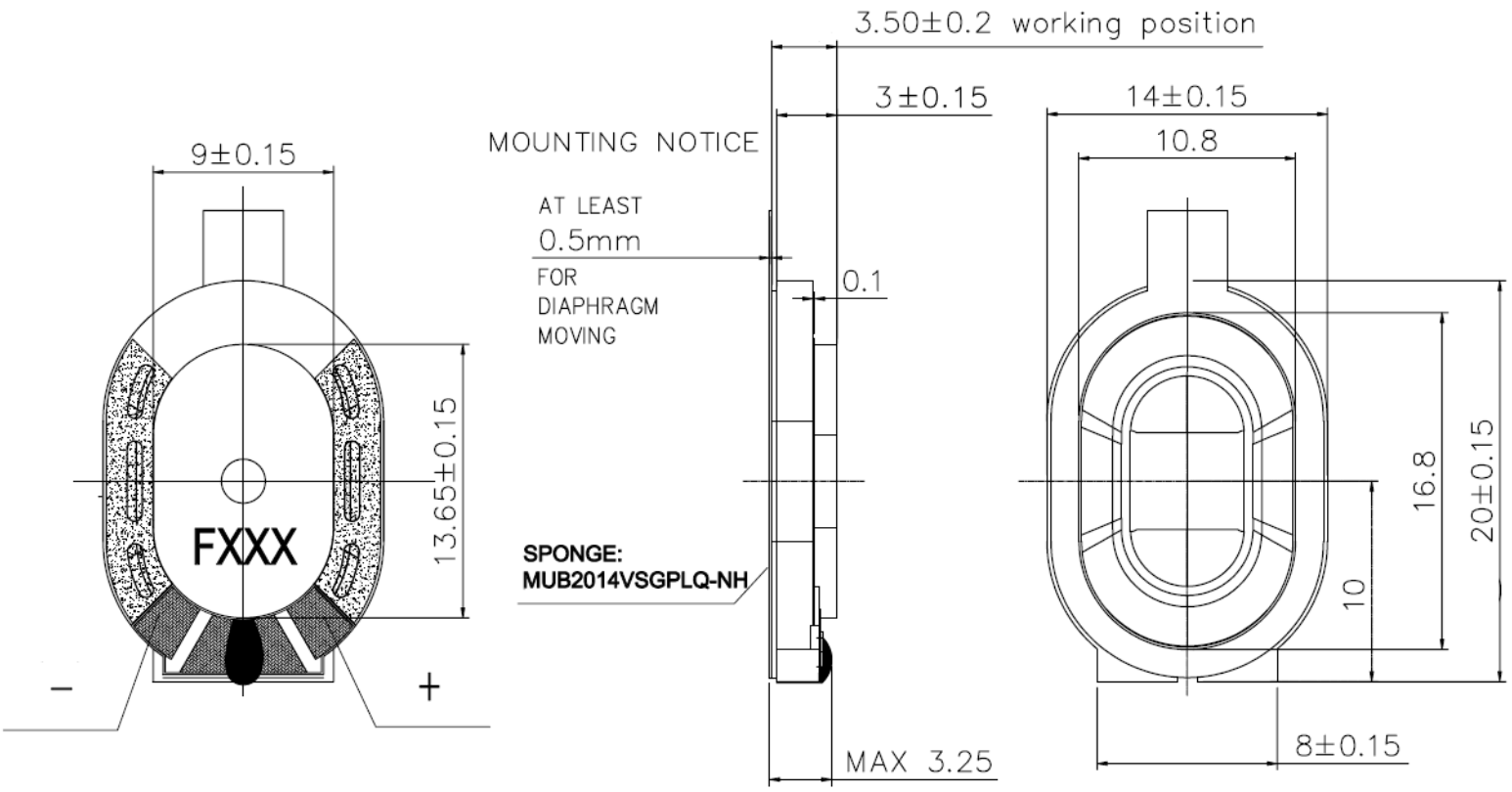
Recommended Soldering Procedure

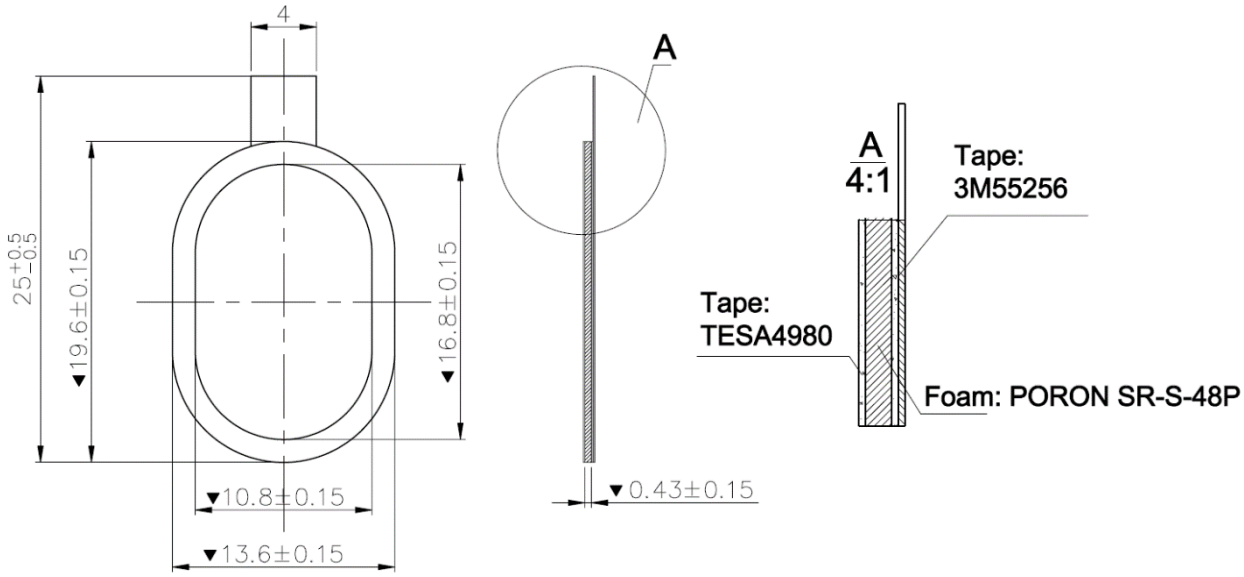
Hand solder using a 25 to 100-watt ESD safe soldering iron with the smallest practical tip. Solder at 350°C ± 20°C (660°F ± 30°F) using lead-free solder for less than 3 seconds per terminal.

Reliability Testing

Type of Test	Test Specifications
High Temperature Test	Place the speaker in the +85 ± 2 °C chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 dB, and resonant frequency should not deviate by ± 50 Hz, compared with pre-test measurement.
Low Temperature Test	Place the speaker in the −40 ± 2 °C chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 dB, and resonant frequency should not deviate by ± 50 Hz, compared with pre-test measurement.
Humidity Test	After exposure the speaker in the + 40±2 °C, relative humidity 90% ~ 95% chamber for 96 hours, then leave the speaker at room temperature for 6 hours, the SPL should not deviate by ±3 dB, and resonant frequency should not deviate by ±50 Hz, compare with pre-test measurement.
Temperature Cycle Testing	Place the speaker in the chamber, temperature cycle setting as below, SPL should not deviate by ± 3 dB, and resonant frequency should not deviate by ± 80 Hz, compare with pre-test measurement. 
Vibration Test	Frequency 30±15 Hz, Amplitude 1.5 mm for 3 Hours. After test, SPL shall not deviate by ±3 dB from pre-test measurement
Drop Test	75 cm free falling on concrete floor, 10 times. After test, SPL shall not deviate by ±3 dB from pre-test measurement.
Load Test	Speaker shall not fail after applying 20 ~ 20 kHz pink noise with HPF rated power input (RMS), 96 hours. After test, SPL shall not deviate by ±3 dB from pre-test measurement,

Dimensions





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Specifications Revisions

Revision	Description	Date
-	Released from Engineering	5/13/2011
A	Revised to Inventor 3D Template	7/15/2013
B	Revised double-sided tape	11/11/2019

Note:

1. Unless otherwise specified:
   A. All dimensions are in millimeters.
   B. Default tolerances are ±0.5mm and angles are ±3°.
2. Specifications subject to change or withdrawal without notice.

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