

Data Sheet ASE05008MS-LWC60

#### **Features:**

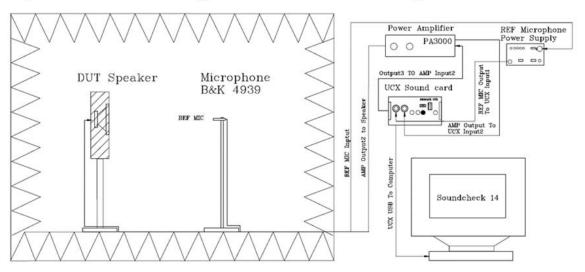
- Compact Enclosure for best performance
- High SPL with low resonant frequency
- High Temperature rating

**Specifications** 

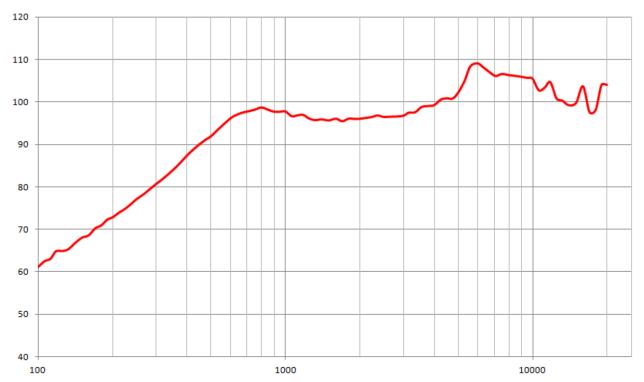
Parameters	Values	Units
Rated Input Power	2.0	Watts
Max Input Power	2.5	Watts
Impedance	8 ± 15%	Ohms
Output SPL (At 0.8K, 1.0K,		
1.2K、1.5KHz, 2W/10cm)	97 ± 3	dB
Resonant Frequency	680 ± 20%	Hz
Frequency Range	680 ~ 20,000	Hz
THD	≤10%	
Frame Material	ABS	-
Magnet Material	NdFeB	-
Diaphragm Material	PEI	-
Weight	21.3	Grams
Ingress Protection Rating	IP67	-
	Not be audible at 4.0V sine wave	
Buzz, Rattle, etc.	between From FO~8K	-
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-40 ~ 85	°C
Operating Temperature	-40 ∼ 85	°C

#### **Measurement Method**

Speaker Testing framework diagram



## **Typical Frequency Response**

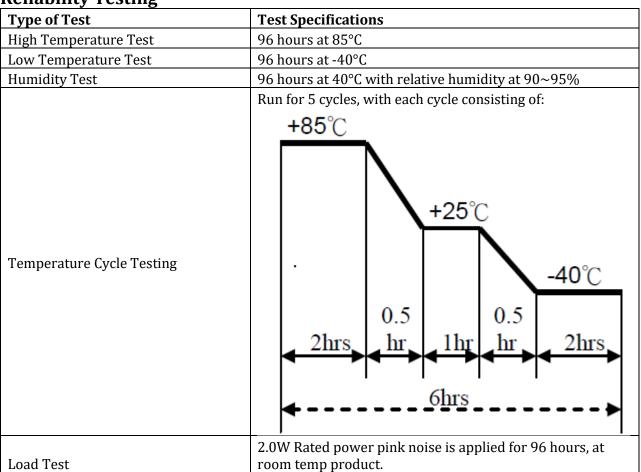


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Typical Thiele-Small Parameters (based on Golden Sample, up to 20% variance is normal)

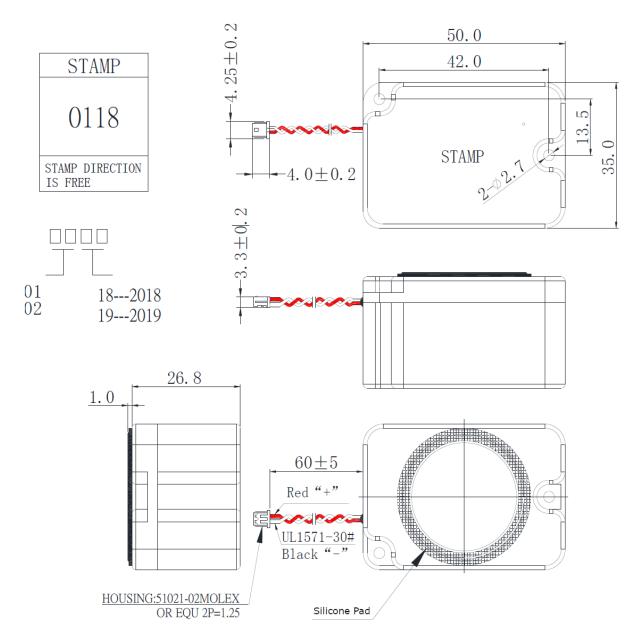
Specification	Value	Description	
Re	7.85	DC resistance	
Le	0.021	Inductance @ 10 kHz	
Fs	663.9	Resonant Frequency	
Mms	0.114	Moving Mass	
Bl	0.665	Magnet Force Factor	
Qms	5.735	Mechanical Q-factor	
Qes	8.47	Electrical Q-factor	
Qts	3.42	Total Q-factor	
Vas	0.0201	Equivalent Air Volume of Suspension	

**Reliability Testing** 

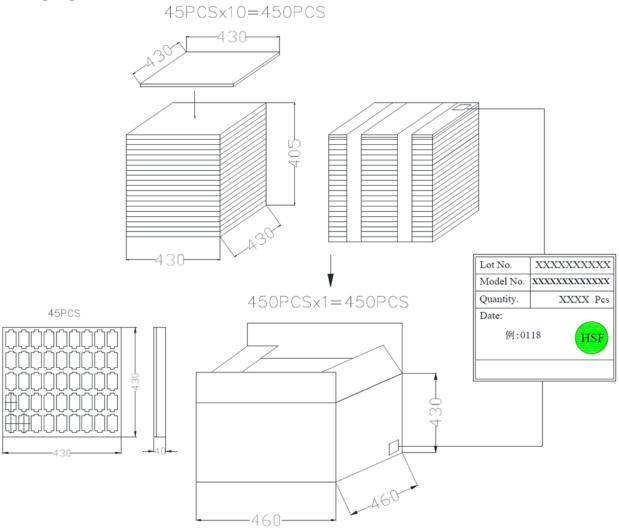


After each test, let rest for 6 hours at 25°C and each part shall be within ±3 dB.

### **Dimensions**



# **Packaging**



**Specifications Revisions** 

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Revision	Description	Date	Approved
Α	Released from Engineering	12/16/2022	-

#### Note:

- 1. Unless otherwise specified:
  - A. All dimensions are in millimeters.
  - B. Default tolerances are  $\pm 0.5$ mm and angles are  $\pm 3^{\circ}$ .
- 2. Specifications subject to change or withdrawal without notice.