

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 <i>(At 0.8K、1.0K、</i>		
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		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



Typical Frequency Response



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

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 40°C with relative humidity at 90~95%		
	Run for 5 cycles, with each cycle consisting of:		
Temperature Cycle Testing	+85°C +25°C +25°C -40°C 0.5 2hrs hr 1hr hr 2hrs hr 6hrs		
Load Test	2.0W Rated power pink noise is applied for 96 hours, at room temp product.		

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

Dimensions



Packaging



Specifications Revisions

Revision	Description	Date
А	Released from Engineering	12/16/2022

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.