



Data Sheet	AS04016MR-4-LW34
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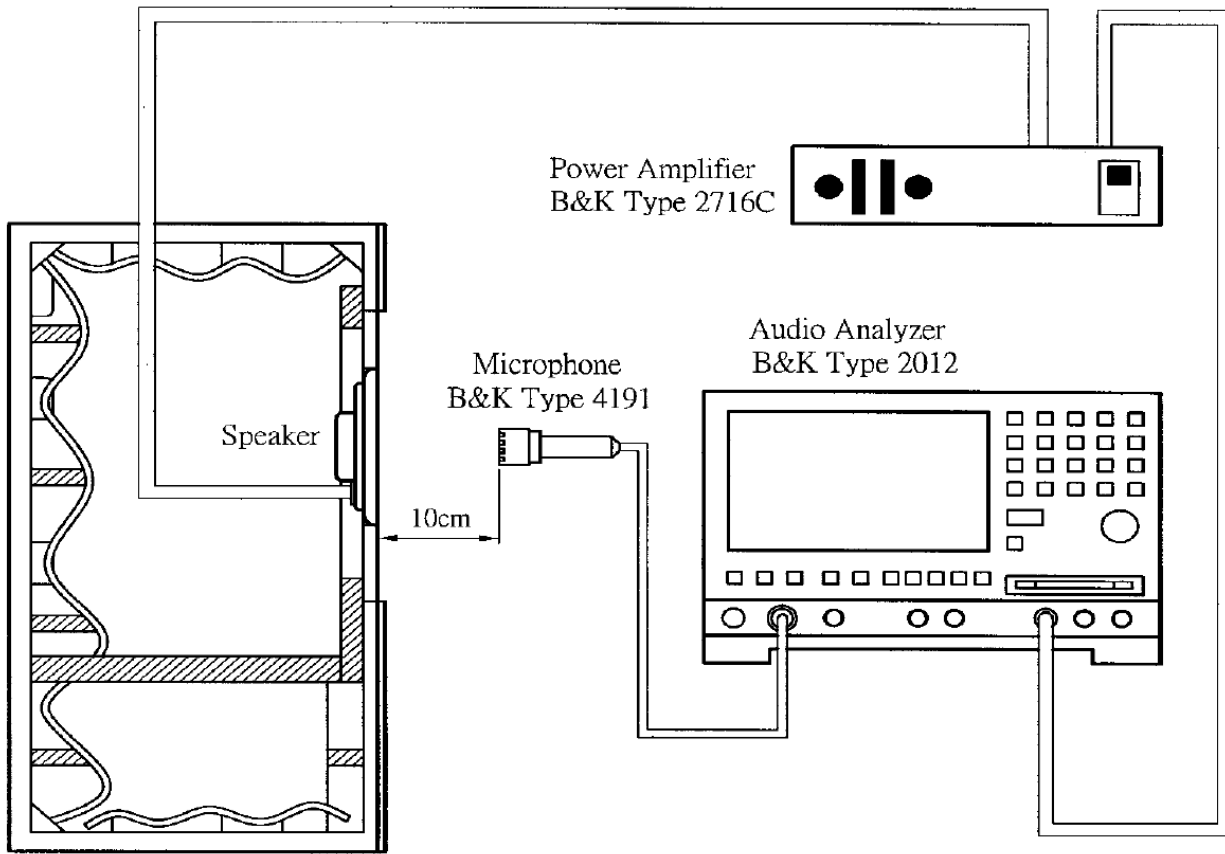
Features:

- High Input power speaker
- 16 Ohm speaker
- IP65 Rated

Specifications

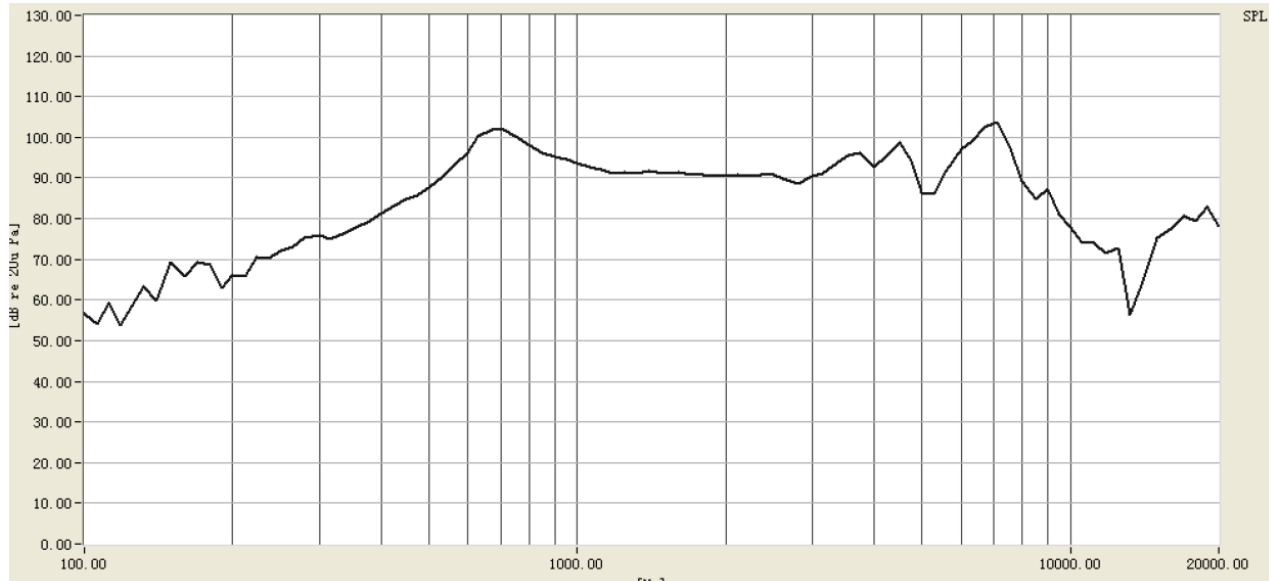
Parameters	Values	Units
Rated Input Power	2.0	Watts
Max Input Power	2.5	Watts
Impedance	16 ± 15%	Ohms
Output SPL (at 1.2, 1.5, 2.0, 2.5 kHz; 0.1W/0.1m)	90 ± 3	dB
Resonant Frequency	680 ± 150	Hz
Frequency Range	680 ~ 10,000	Hz
THD	<15%	
Recommended Enclosure Volume (closed box, no damping)	91.12	cc
Frame Material	SPCC	-
Magnet Material	NdFeB	-
Diaphragm Material	Mylar	-
Weight	10.5	Grams
Ingress Protection Rating	IP65	-
Acceptable Soldering Methods	Hand Solder, Wave Solder, Reflow Solder (<i>list applicable</i>)	See page 3 for soldering information
Buzz, Rattle, etc.	Not audible at 5.65V sine wave between 500~5,000 Hz	-
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-40 ~ 90	°C
Operating Temperature	-40 ~ 85	°C

Measurement Method (1.26V, 0.1m)



JIS C5531
940mm x 640mm x 1240mm

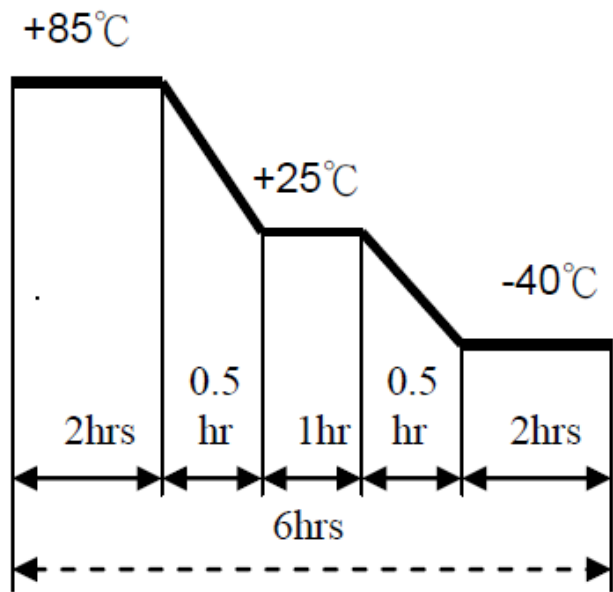
Typical Frequency Response (1.26V, 0.1m)



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

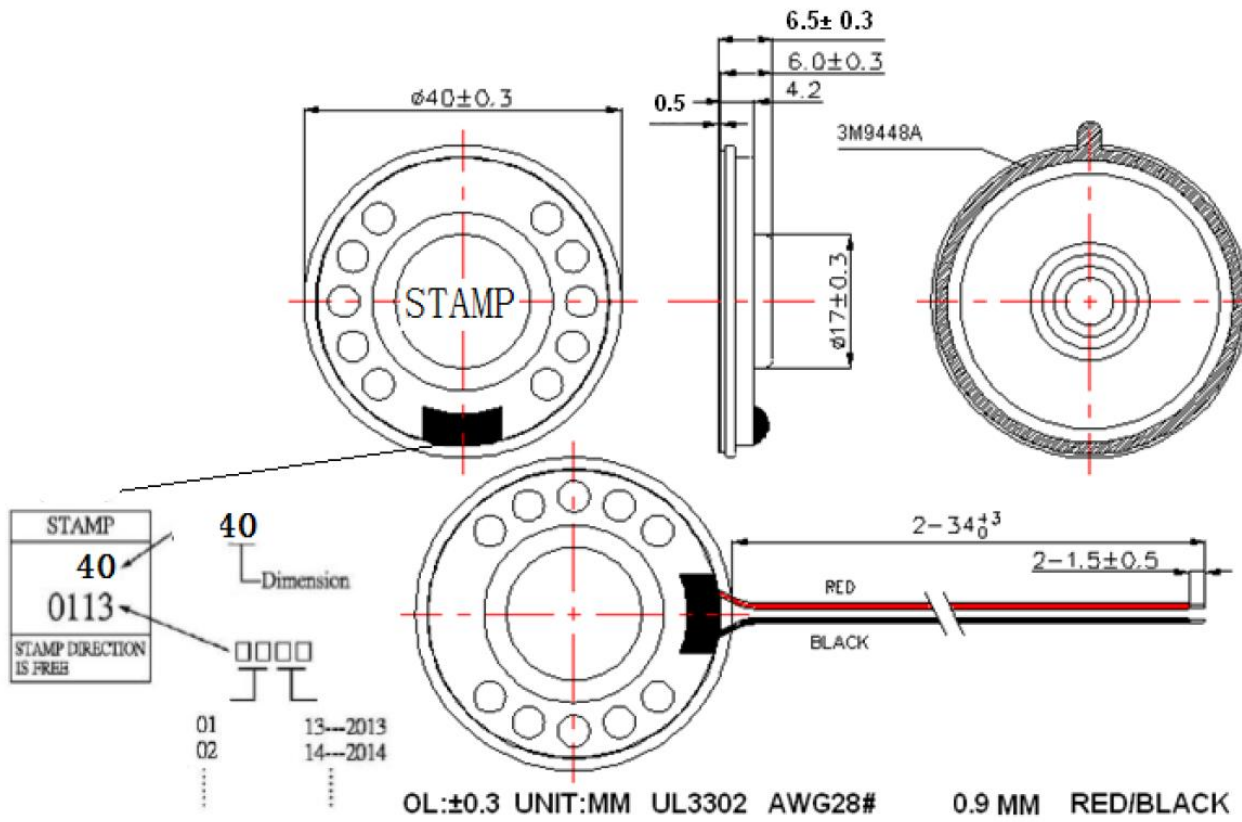
Specification	Value	Description
Re	15.6	DC resistance
Le	0.0627	Inductance @ 10 kHz
Fs	667.7907	Resonant Frequency
Mms	0.6843	Moving Mass
Bl	1.51	Magnet Force Factor
Qms	9.5113	Mechanical Q-factor
Qes	19.6437	Electrical Q-factor
Qts	6.4084	Total Q-factor
Vas	0.0096	Equivalent Air Volume of Suspension

Reliability Testing

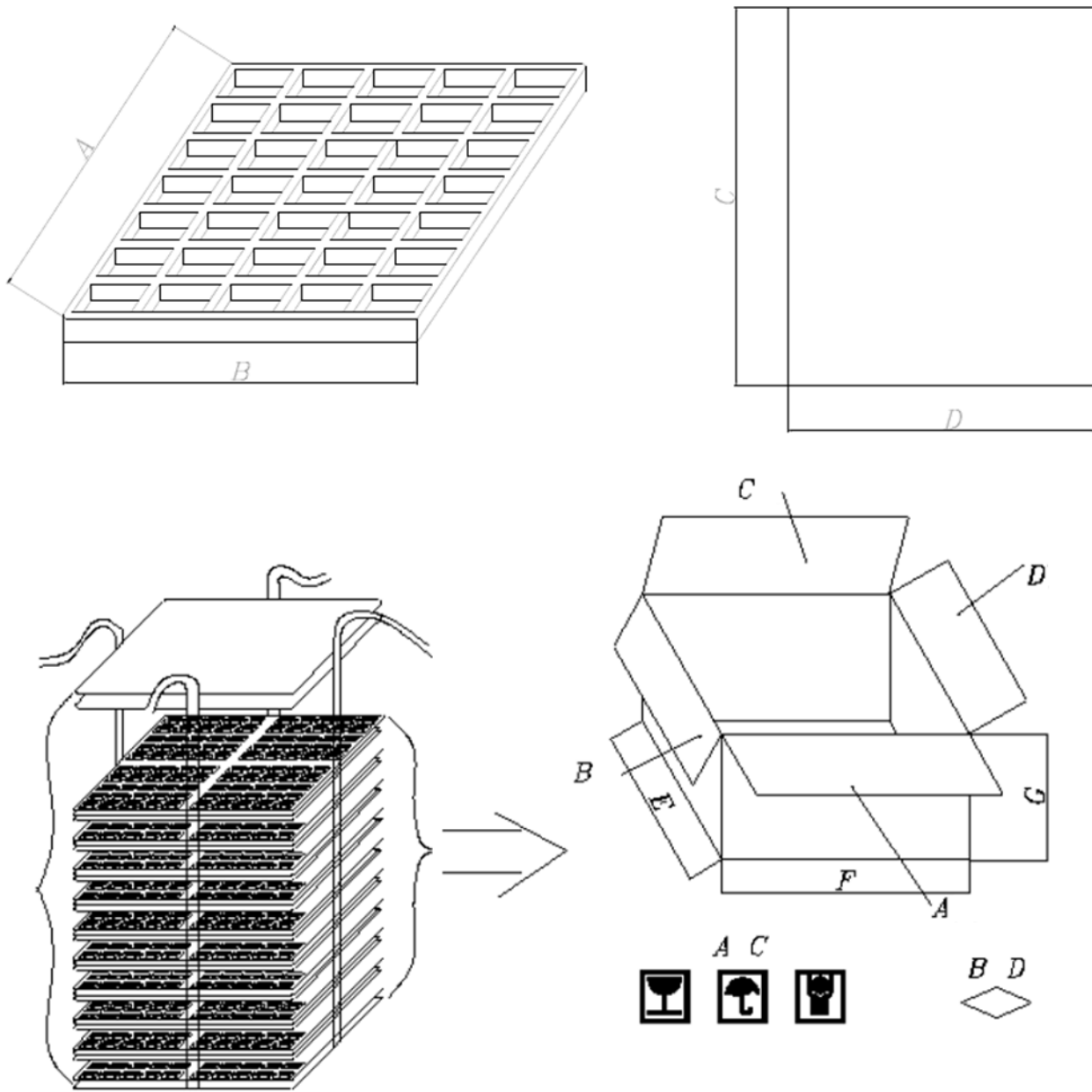
Type of Test	Test Specifications
High Temperature Test	96 hours at 90°C
Low Temperature Test	96 hours at -40°C
Humidity Test	168 hours at 45°C with relative humidity at 80~90%
Temperature Cycle Testing	Subject to 5 cycles, with each cycle consisting of: 
Load Test	If applicable, state the conditions of the load test

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

Dimensions



Packaging



A × B	425 × 255 × 12mm 35PCS/盘 (G-4945-12T)	14
C × D	425 × 255 × 6 mm	1 个
E × F × G	435 × 265 × 220mm	35PCS × 12=490PCS

Specifications Revisions

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

Note:

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