

Data Sheet AS04004MR-F-WP-R

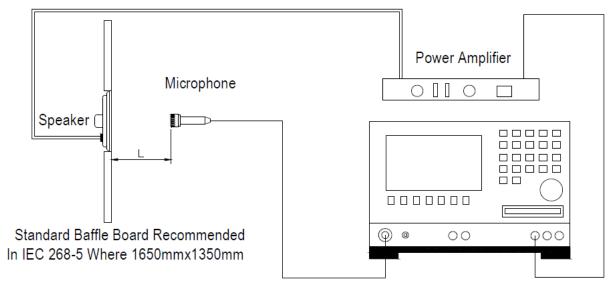
#### **Features:**

- Flange Mount for easy installation
- IP 65 Rated

**Specifications** 

Parameters	Values	Units
Rated Input Power	3.0	Watts
Max Input Power	5.0	Watts
Impedance	4 ± 15%	Ohms
Output SPL (@ 0.8k, 1.0k, 1.2k, 1.5k Hz in 1.0W/1.0M)	80 ± 3	dB
Resonant Frequency	160 ± 20%	Hz
Frequency Range	160 ~ 20,000	Hz
THD (@ 1K Hz, 1.0W)	<10%	
Frame Material	SPCC	-
Magnet Material	NdFeB	-
Diaphragm Material	Rubber + Paper	-
Weight	25	Grams
Ingress Protection Rating	IP65	-
Buzz, Rattle, etc.	must be normal at sine wave between 160 ~ 5K Hz	-
Environmental Compliances	ROHS/REACH	-
Polarity	cone will move forward with positive dc current to"+" terminal	_
Storage Temperature	-40 ~ 85	- °C
Operating Temperature	-25 ~ 60	°C

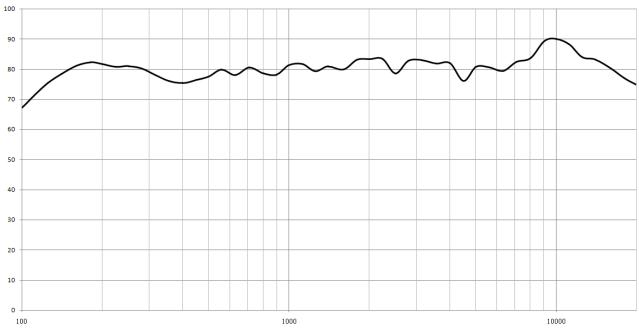
### **Measurement Method**



Audio Analyzer Soundcheck

### L=100cm

## Typical Frequency Response (1.0W/0.1M)



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

Specification	Value	Description	
Re	3.95	DC resistance	
Le	0.075	Inductance @ 10 kHz	
Fs	158.9	Resonant Frequency	
Mms	0.635	Moving Mass	
Bl	2.159	Magnet Force Factor	
Qms	5.046	Mechanical Q-factor	
Qes	0.538	Electrical Q-factor	
Qts	0.486	Total Q-factor	
Vas	0.1447	Equivalent Air Volume of Suspension	

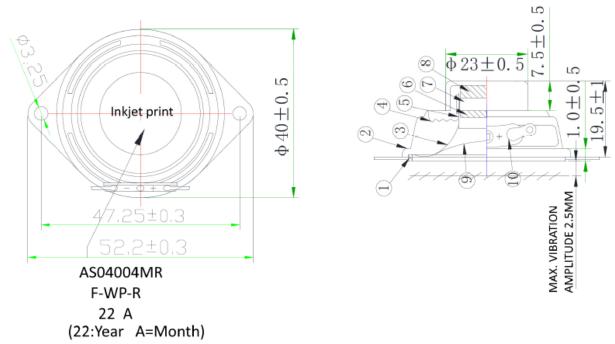
**Reliability Testing** 

m cm	m . c . :c: .:		
Type of Test	Test Specifications		
High Temperature Test	96 hours at 85 ± 2°C		
Low Temperature Test	96 hours at -40 ± 2°C		
Humidity Test	48 hours at 40 $\pm$ 2°C with relative humidity at 90~95%		
Temperature Cycle Testing	The cycle should be run 4 times, with each cycle consisting of:  +60°C  +25°C  -20°C  2hrs hr 1hr hr 2hrs  6hrs		
Vibration Test	Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 Hours		
Drop Test	75 CM free falling on Concrete floor, 10 times		
Load Test	Must perform normal with program White-Noise source at rated power for 96 hours		

After each test, parts should conform to original performance within  $\pm 3$  dB tested with Rated Power, after 6 hours of recovery period.

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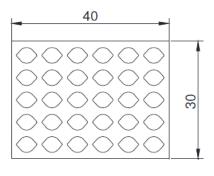
### **Dimensions**

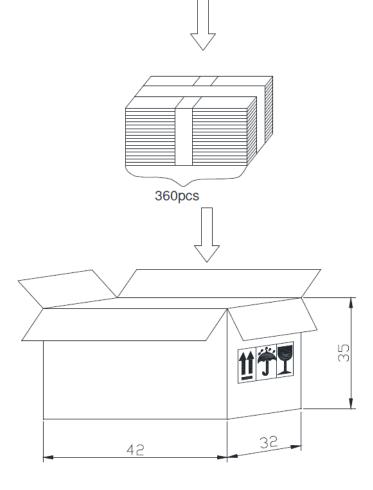


NO	Component	Material
1	Frame	SPCC
2	Cone	Rubber+ Paper
3	Damper	Cloth
4	Voice coil	KAP+SV
5	Magnet	NdFeB
6	Plate	SPCC
7	Magnet	NdFeB
8	Dust cap	PET
9	Terminals	Paper+steel

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# **Packaging**





**Specifications Revisions** 

Revision	Description	Date
A	Released from Engineering	5/11/2022
В	Revised SPL, Drawing, Packaging	11/18/2022

#### 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.