



soberton inc.

# WATERPROOF SPEAKER UNIT

Acoustic Product Specification

Product Number: WSP-3604Y



Release | Revision: A/2018

## CONTENTS

This document contains the technical specifications for waterproof speaker.

### Page 1

Speaker Specification

### Page 2

Measuring Circuit

Typical Frequency Response Curve

### Page 3

Dimensions

### Page 4

Packaging

## Speaker Specification

Item	Specification	Testing Condition
Dimensions	Ø36 x H4.65mm	
Voice Coil Impedance	16Ω±15%	At 1.0KHz 1V
Resonant Frequency	600±20%Hz	At 1.0V
Output S.P.L.	82±2dB at 1.0, 1.2, 1.5, 2.0, 2.5 KHz in average	At 1.0m /1.0W
Frequency Response	f0~5.0KHz	-10dB
Rated Input Power	1.4 W	
Max Input Power	2.1 W	
Operation	Must be normal	Program source 1.4 W
Noise	Must be normal	Sine wave 4.73 V
Heat Test	Meets items 8 & 9 after test	55±2°C 16 hours
Humidity Test	Meets items 8 & 9 after test	40±2°C 90~95%RH 48 hours
Load Test	Meets items 8 & 9 after test	1.4 W 100 hours
Magnet	Φ12.5 x 1.6mm NdFeB	
Net Weight	8.8±0.5g	
Polarity	When a positive DC current is applied to the terminal marked(+), the diaphragm moves forward.	
Storage Temperature Range	-20°C ~ 60°C/70°C	
IP Rating	IP67	



soberton inc.

# WATERPROOF SPEAKER UNIT

Acoustic Product Specification

Product Number: WSP-3604Y



Release | Revision: A/2018

## CONTENTS

This document contains the technical specifications for waterproof speaker.

### Page 1

Speaker Specification

### Page 2

Measuring Circuit

Typical Frequency Response Curve

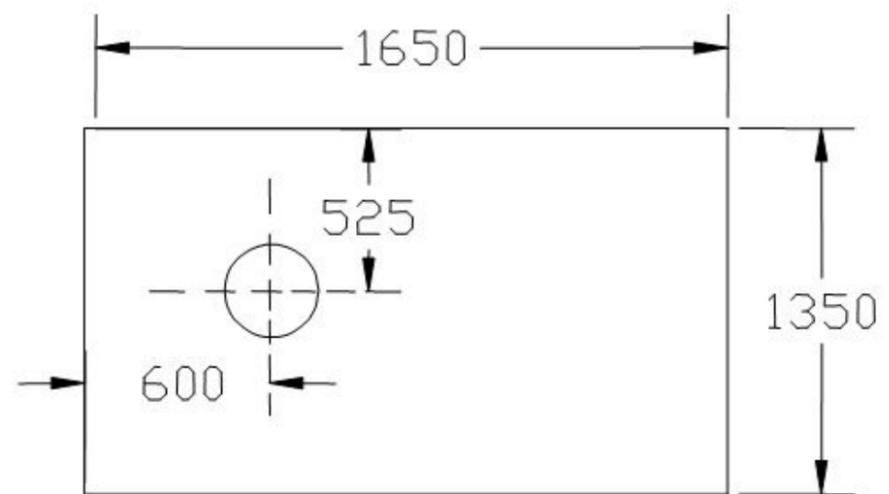
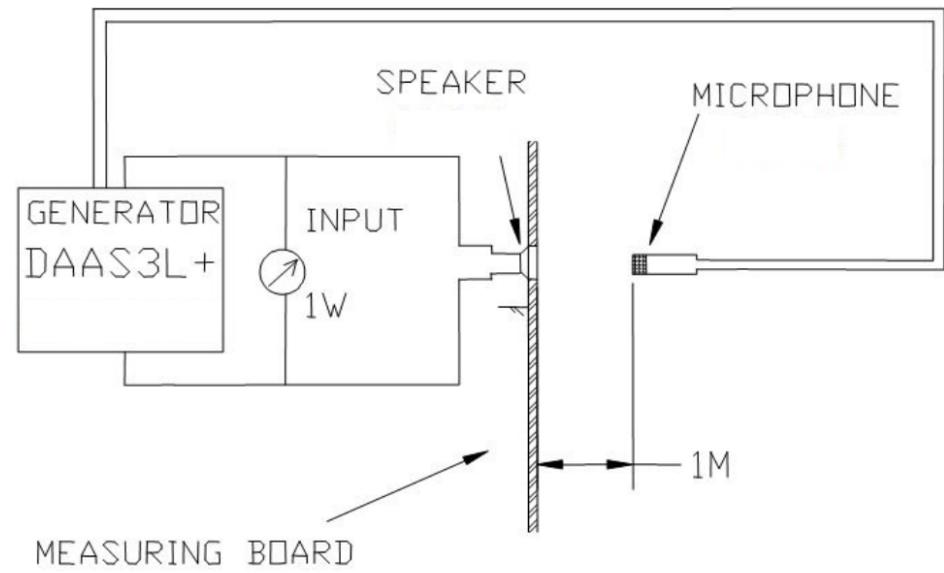
### Page 3

Dimensions

### Page 4

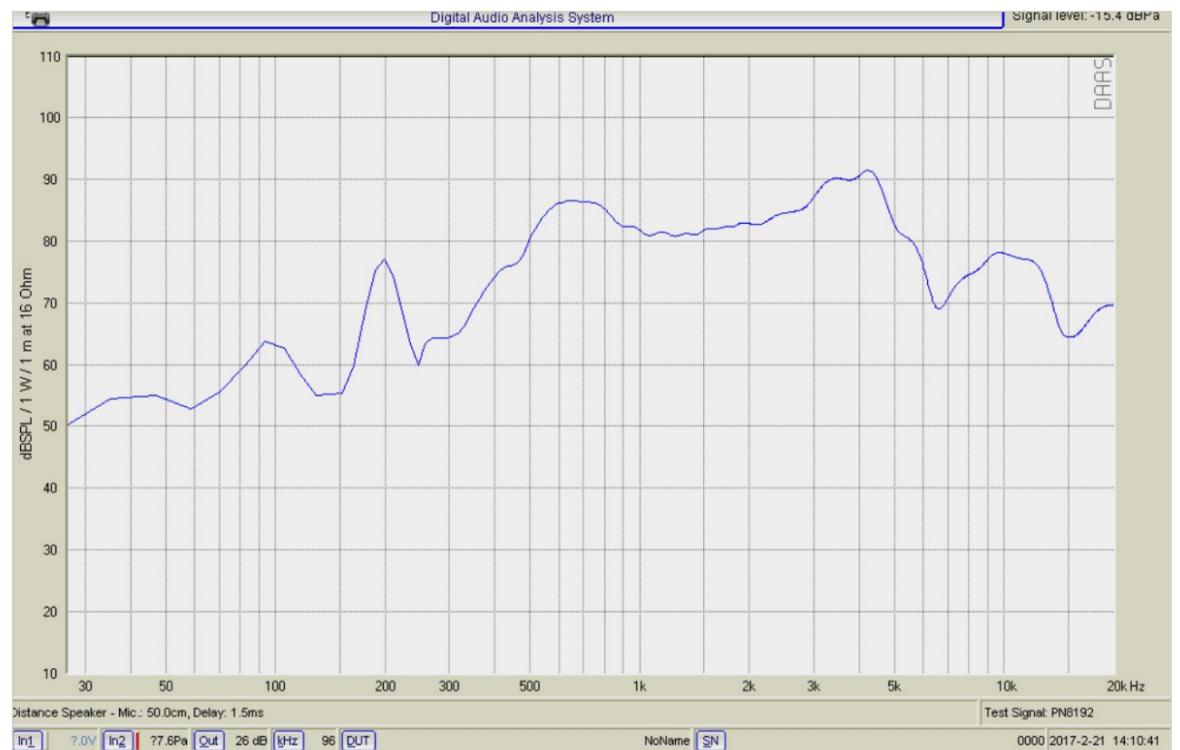
Packaging

## Measuring Circuit



## MEASUREMENT

## Typical Frequency Response Curve





soberton inc.

# WATERPROOF SPEAKER UNIT

Acoustic Product Specification

Product Number: WSP-3604Y



Release | Revision: A/2018

## CONTENTS

This document contains the technical specifications for waterproof speaker.

### Page 1

Speaker Specification

### Page 2

Measuring Circuit

Typical Frequency Response Curve

### Page 3

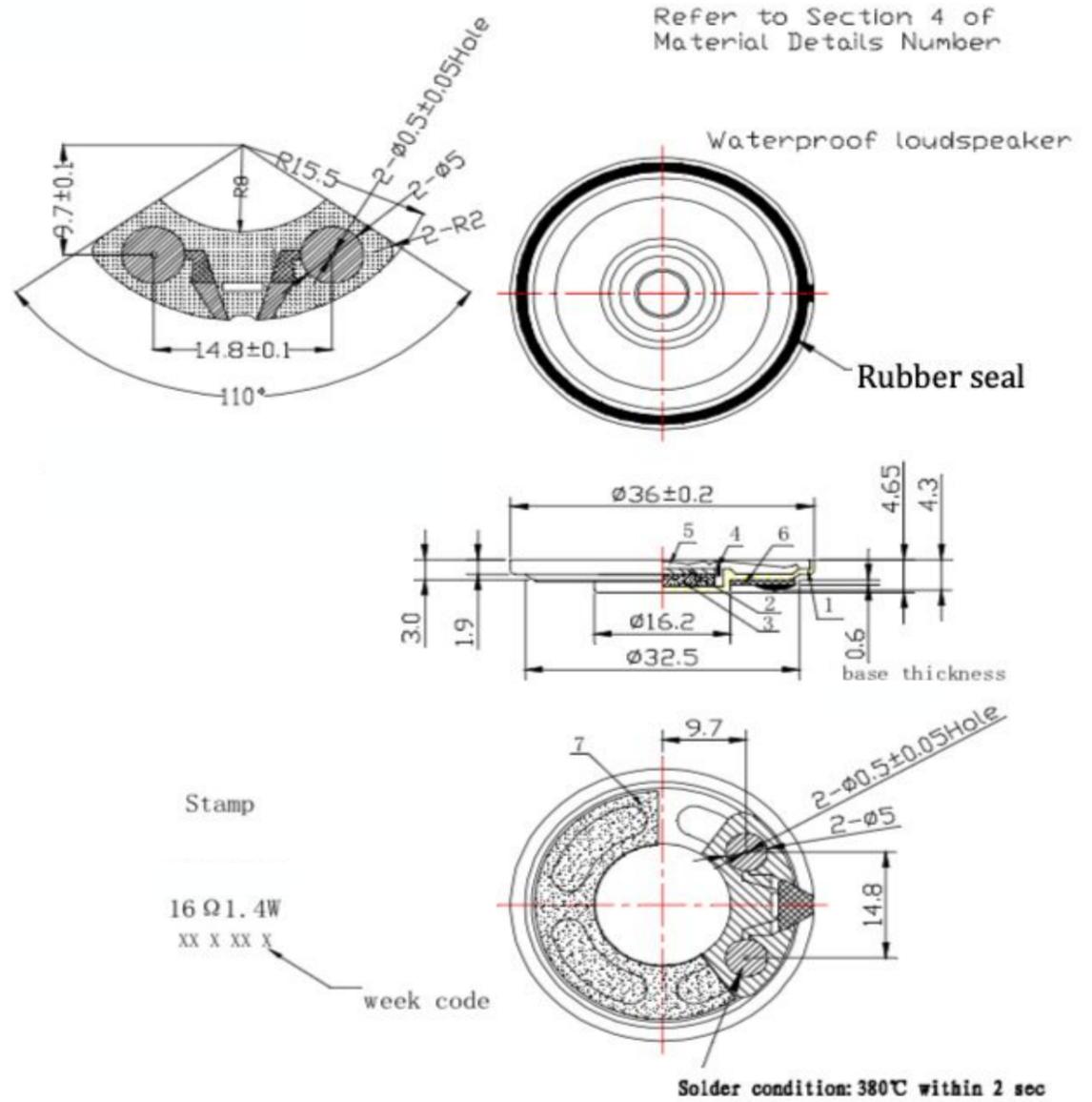
Dimensions

### Page 4

Packaging

## Dimensions

Tolerance:  $\pm 0.2\text{mm}$



No.	Part Name	Material	Remark
1	Frame	Metal	MFZn -Cr
2	Plate	Metal	MFZn-Cr
3	Magnet	NdFeB	MFZn-Cr
4	Voice Coil	Paper + copper wire	
5	Cone	PET	
6	Terminal	FR-4, 0.6t	Solder mask, gold plating
7	Dust mesh	Non-woven	



soberton inc.

# WATERPROOF SPEAKER UNIT

Acoustic Product Specification

Product Number: WSP-3604Y



Release | Revision: A/2018

## CONTENTS

This document contains the technical specifications for waterproof speaker.

### Page 1

Speaker Specification

### Page 2

Measuring Circuit

Typical Frequency Response Curve

### Page 3

Dimensions

### Page 4

Packaging

## Packaging

