

# SPECIFICATION FOR APPROVAL

## 规格书

Customer ( 客户名称 ):

\_\_\_\_\_

Customer P/N(客户编号):

\_\_\_\_\_

Our P/N (本厂编号):

FS42MB0430-H14.5-R01

Approval Date(日期):

2024.11.02

Environment Request(环境标准):

Non-RoHS (非 RoHS 标准)

RoHS (RoHS 标准)

REACH (REACH 标准)

Others (其他)

### CUSTOMER'S APPROVED SIGNATURE

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**福声科技**  
FUSHENG TECHNOLOGY

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	DESINGER	CHECKED	APPROVED
SIGNATURE			
DATE			

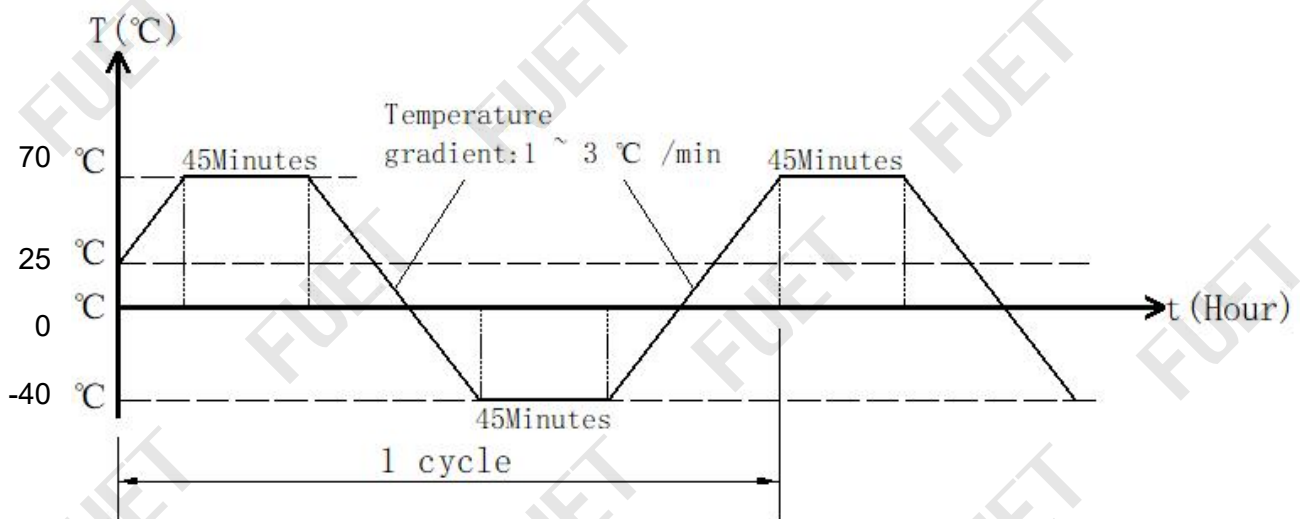


## Speaker Specification

Part No.	Customer No 客户型号		Customer code 客户编号	
	Our Part No 本厂编号	FS42MB0430-H14.5-R01	Revision 版本	A
No.	Item 项目	Specification 规格	Testing Condition 测试条件	
1.	Rated Imp 共称阻抗	4Ω±15%	At 2kHz 1.0Vrms	
2.	Resonance Freq 最低共振周波数	F0: 1050Hz±20%	Without Baffle	
3.	Output S.P.L. 出力音压	93±3dB	At 0.1m 0.1w 0.8~5.0KHz Average	
4.	Rated Power 定格功率	at 3.0W	at 3.47 Vrms	
5.	Max Power 最大功率	at 3.5W	at 3.74Vrms	
6.	Frequency Range 实效频宽	750~5kHz	Output S.P.L -10dB	
7.	Operation 可靠性试验	Must Be Normal at Rated Frequency Range	ProgramSource3.0W 300~10kHz	
8.	Buzzes & Rattles 异常音试验	Should not be audible buzz and rattle at Rated Frequency Range 无异常声	Sine Wave Between (正弦波入力) at 3.47Vrms / 300~5.5kHz	
9.	T H D 失真	10% Max	Rated Power Input 1000Hz	
10.	Magnet 磁铁	Nd Fe B		
11.	Operating Temperature 动作温度	-30°C to +50°C		
12.	Storage Temperature 储存温度	-40°C to +70°C		
13.	Waterproof Level 防水等级	IPX7		

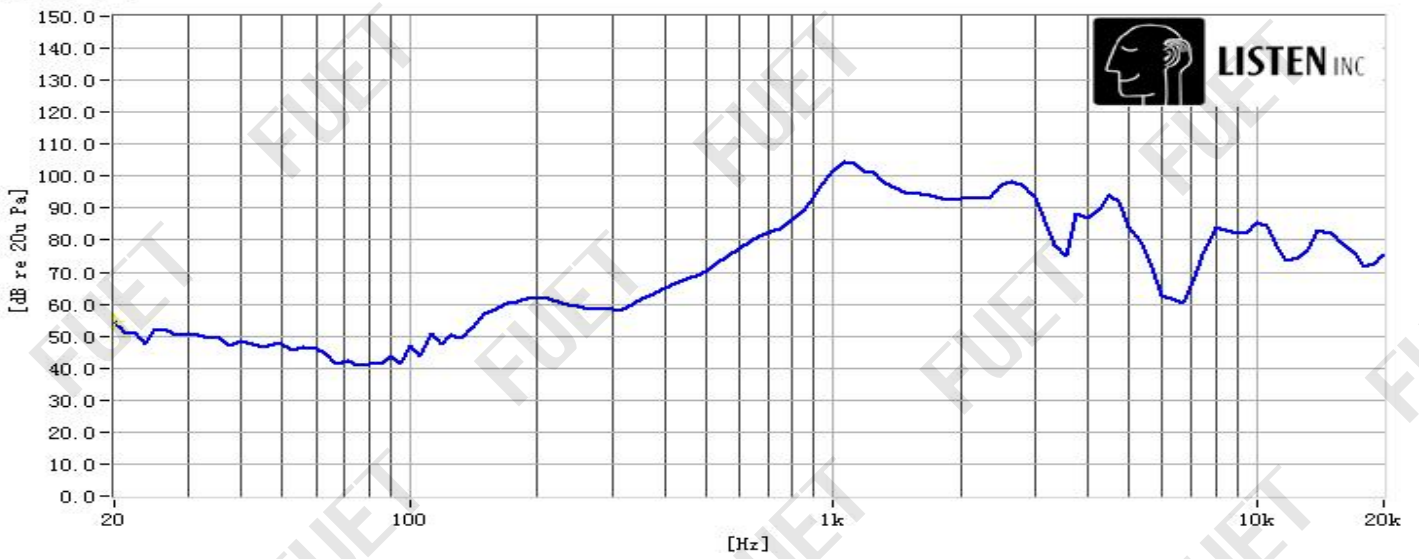
14.	Cold Test 耐寒试验	Must be normal after having been in a test chamber for 96 hours at the condition of $-40^{\circ}\text{C}\pm 2^{\circ}\text{C}$ and then left 2 hours in a room. ( $-40^{\circ}\text{C}\pm 2^{\circ}\text{C}$ , 96 小时试验室温两小时后, 无异常)
15.	Heat Test 耐热试验	Must be normal after having been in a test chamber for 96 hours at the condition of $+70^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 90~95% R.H and then left 2 hours in a room. ( $+70^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 90~95% R.H 96 小时试验, 常温 2 小时后, 无异常的不良)
16.	Load Test 连续负荷试验	Must be normal after load test :white noise 3.0W 96 hours. At rated frequency range (白噪音 3.0W 连续 96 小时试验后无异常的不良)
17.	Short Term Max Power test 瞬间最大功率试验	Test for 1 hour under maximum power. Input shall be white noise in rated frequency response. And the signal will be 1 second on, 59 seconds off, total 60 cycles at rated frequency range, Must be normal after the test (白噪音 3.5W, 1 秒开 59 秒关, 连续 60 回合, 试验后无异常之不良)
18.	Drop Test 跌落试验	Drop the speakers contained in normal box onto a board 5mm thick 6 times from a height of 1.0m . Must be normal after the test (在厚 5mm 的木板上从 1.0m 的高度跌落 6 次, 无异常不良)
19.	Waterproof Test 防水测试	Use 15KPa air pressure test for 5 seconds, and the leakage of less than 10Pa is the waterproof grade IPX7 用 15KPa 气压测试 5 秒, 不超过 10Pa 泄露即为防水等级 IPX7

### Temperature Cycle Test(5 cycle)

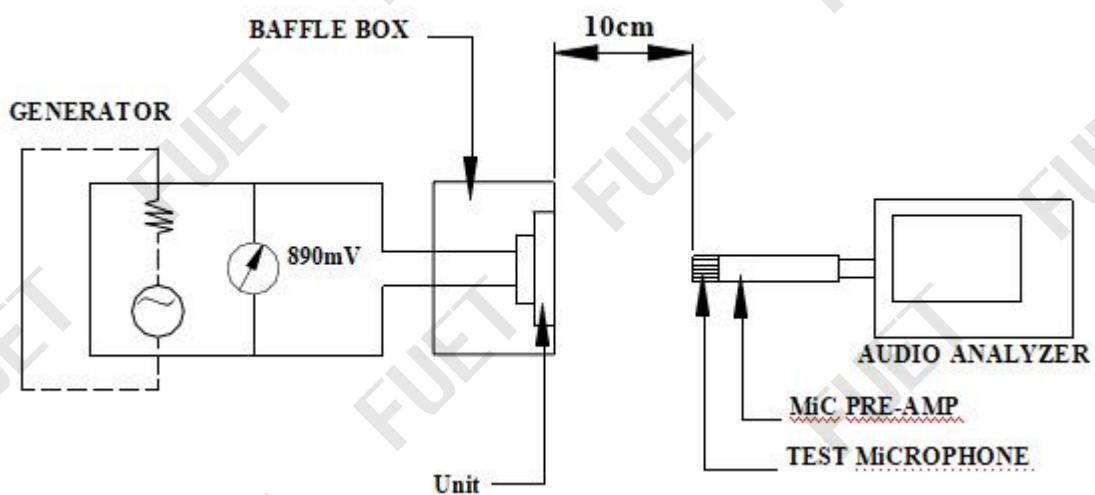
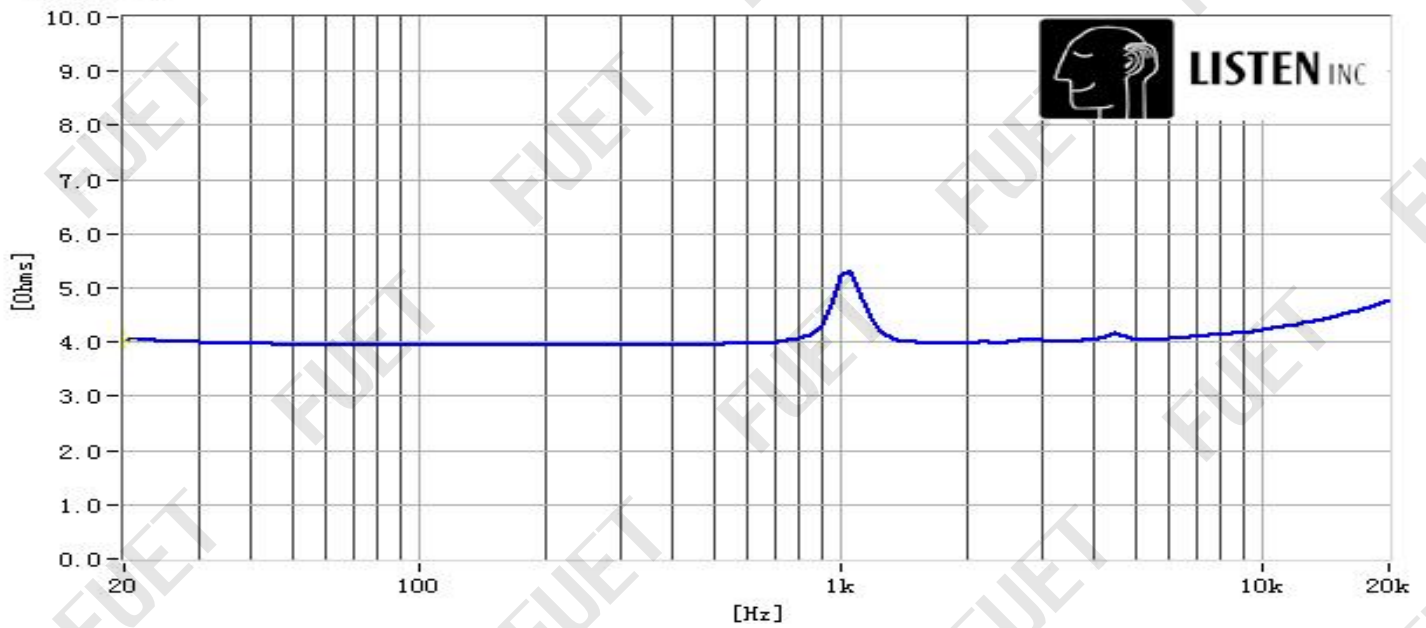


# Frequency Response

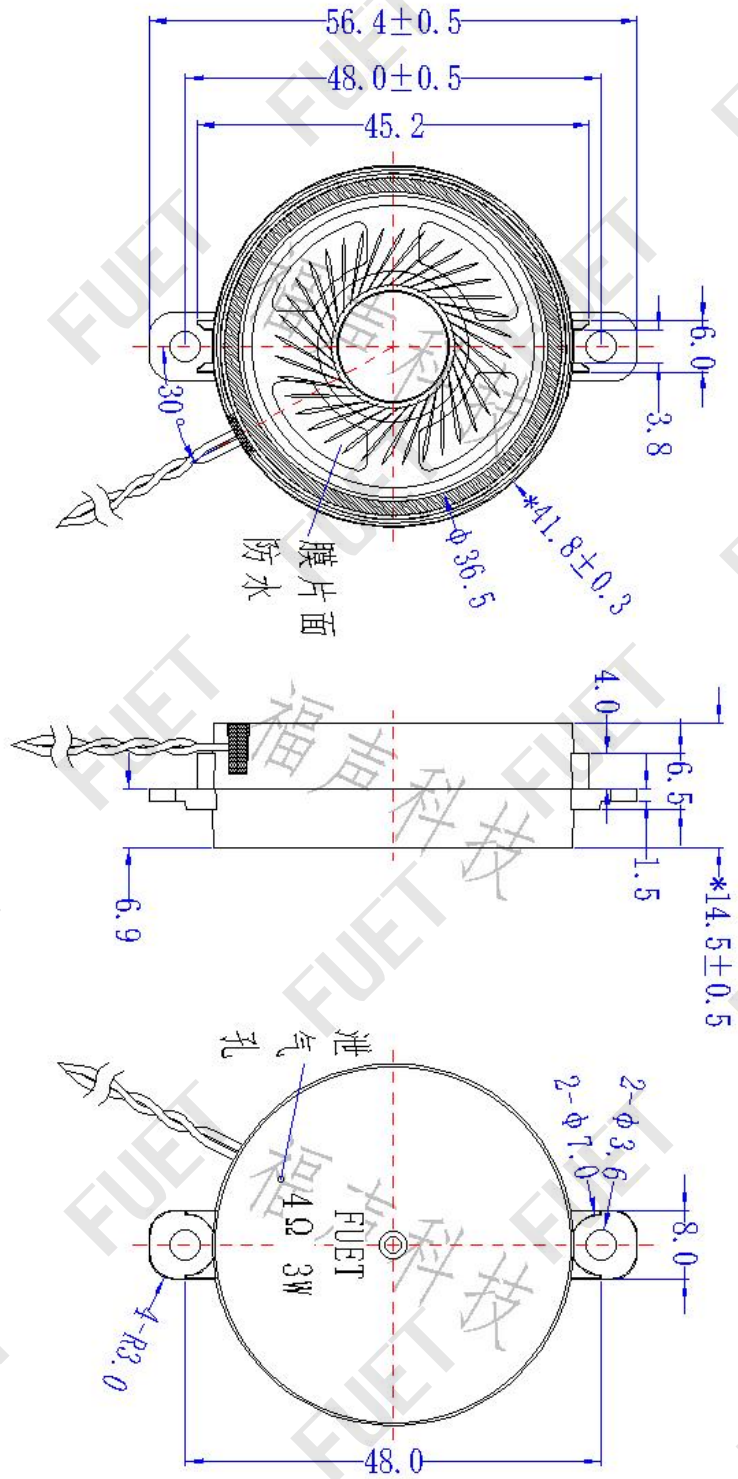
## 频响曲线



## 阻抗曲线



Product Outside View



- 注: 1. 标示“\*”为重点检测尺寸;  
 2. 未有说明, 则默认图示LOGO;  
 3. 未注公差:  $\pm 0.2\text{mm}$

泰州福声电子科技有限公司



Title: FS42MB0430-H14.5-R01

REV	REVISION	NAME	DATE	SCALE	L:1	QUANTITY	DATE	DATE	UNIT	mm