# SPECIFICATION FOR APPROVAL 規格書

Customer (客戶名稱):				
Customer P/N(客戶番號):				
Our P/N (本廠番號):	FS-1540			
Approval Date(日期) <b>:</b>	2019.12.26			
Environment Request(環境標准): □ Non-RoHS (非 RoHS 標準) □ REACH (REACH 標準) □ Others (其他)				
CUSTOMER'S APPROVED SIGNATURE				
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## 泰州福聲電子科技有限公司

# 福声科技

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	DESINGER	CHECKED	APPROVED
SIGNATURE			
DATE			

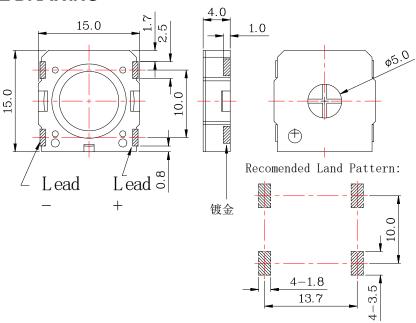
#### A. SCOPE

This specification applies speaker, FS-1540

### **B. SPECIFICATION**

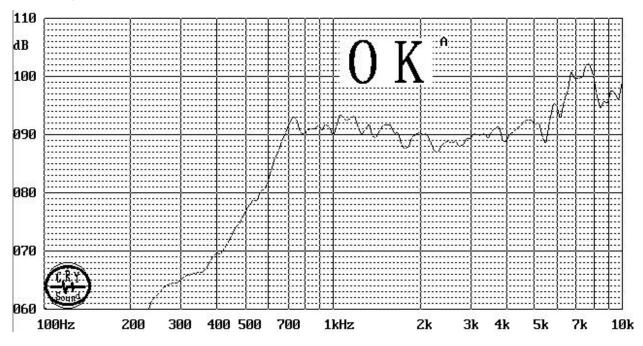
No.	ltem	Unit	Specification	Condition
1	Dimension	mm	15 x 15 x H4.0	See appearance drawing
2	Sound Pressure Level	dB	87±3dB	at 1.0,1.6, 2.0, 3.2KHz Average 0dB=20µPa Measurement is as shown in fig (2),Input: 2.0V= <b>0.5W at 0.1m</b>
3	Power Rating	W	0.5 MAX.0.8	
4	Impedance	ohm	8±15%Ω	At 1.0KHz 1.0V
5	Resonance Frequency	Hz	850±20%	At 1.0V
6	Frequency Rang	Hz	Fo∼20K	Output S.P.L. ±10dB
7	Buzze & Rattle			Must be free audible noise, From Fo∼20K Hz frequency range, Input: 2.0V 0.5W
8	Distortion	%	5% Max.	At 1kHz, 0.5W
9	Housing Material		LCP(Black) PIN(Plating Au)	
10	Leading Pin		SMD Type	
11	Weight (MAX)	gram	2.1	
12	Operating Temperature	$^{\circ}$	-40~ +85	
13	Storage Temperature	$^{\circ}$	-40 ~ +85	
14	Environmental Protection Regulation		RoHS	

#### **C. APPEARANCE DRAWING**



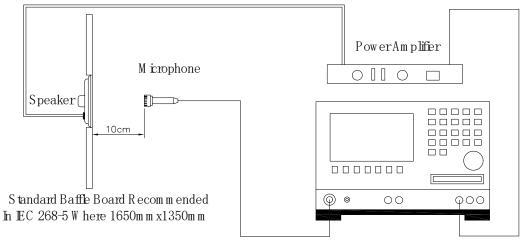
Tol: ± 0.5 Unit: mm

## **D.Frequency Response**



## E. Electrical And Acoustical Measuring Condition

## Standard test condition of speaker



Audio Analyzer THDS Type 6160S

## F. RELIABILITY TEST

No.	ltem	Test condition	Evaluation standard
1	Solderability (Spring Contact excepted)	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5°C for 3±1 seconds.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal)
2	Soldering Heat Resistance (Spring Contact excepted)	Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of +260±5°C for 3±1 seconds.	No interference in operation
3	Terminal Pull Strength	<ul> <li>(1) Spring Contact: Applied 3N (0.306kg) load to the Spring Contact for 30 sec.</li> <li>(2) Terminal : Applied 9.8N (1.0kg) load to the Terminal for 30 sec.</li> </ul>	No damage and cutting off
4	Vibration Test	Speaker shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.	
5	Drop Test	Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm	

## **G. ENVIRONMENTAL TEST**

No.	Item	Test conditions	Evaluation standard
1	High temp. Test	After being placed in a chamber at +85°C for 240 hours	
2	Low temp. Test	After being placed in a chamber at -40℃ for 240 hours.	be measured. No
3	Humidity test	After being placed in a chamber at +40°C and 95±5%RH relative humidity for 240 hours.	
4	Temp. cycle test	The part shall be subjected to 5 cycles. One cycle shall be consist of:  +85°C  -40°C  2hrs 0.5hrs 1hrs 0.5hrs 2hrs  6hrs	obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 2.0V sine wave between Fo~20KHz. Fo should meet initial one. S.P.L. deviation of unit should be within ±3dB

#### H. RELIABILITY TEST

No.	Item	Test conditions	Evaluation standard
1	Load test	0.5W white noise is applied for 24 hours, at room temp.	Being placed for 1 hours at +25°C, receiver shall be measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 2.0V sine wave between Fo~20KHz. S.P.L. deviation of unit should be within ±3dB

#### **TEST CONDITION.**

a) Temperature :  $+5 \sim +35^{\circ}$ C b) Humidity : 45-85%Standard Test Condition c) Pressure: 860-1060mbar 一般测试条件 a) 温度 :+5~+35℃ b) 湿度:45-85% c) 气压: 860-1060mbar Judgment Test Condition : 争议时测试条件 : a) Temperature : +25 ± 2°C b) Humidity : 60-70% c) Pressure: 860-1060mbar

a) 温度:+25±2℃ b) 湿度:60-70% c) 气压: 860-1060mbar

#### I. PACKING STANDARD

