

# 規格承認書

## PECIFICATION FOR APPROVAL

客 戶

CUSTOMER : \_\_\_\_\_

項 目

ITEM : 长方形扬声器(塑壳内磁) \_\_\_\_\_

型 號

TYPE : GSPK351607BOX-8R1W-L100 \_\_\_\_\_

描述

DESCRIPTION : L35 x W16x H7.0 MM 磁芯 9.85\*1.8\*N35mm 8Ω 1-2W S.P.L: 93dB+/- 3dB

客戶料號

CUSTOMER NO. : \_\_\_\_\_

規格書號

SPECIFICATION NO.: \_\_\_\_\_

版 本

EDITION NO. : V1.0 \_\_\_\_\_

日 期

DATE : 2025-3-24 \_\_\_\_\_

### 客 戶 承 認

#### CUSTOMER CONFIRM AND SIGN

檢 查 TESTED BY	審 核 CHECKED BY	承 認 APPROVED BY

東莞市贏海電子有限公司

**DONGUAN INGHAI ELECTRONICS CO.,LTD**

製作 ISSUED BY	審查 CHECKED BY	確認 APPROVED BY
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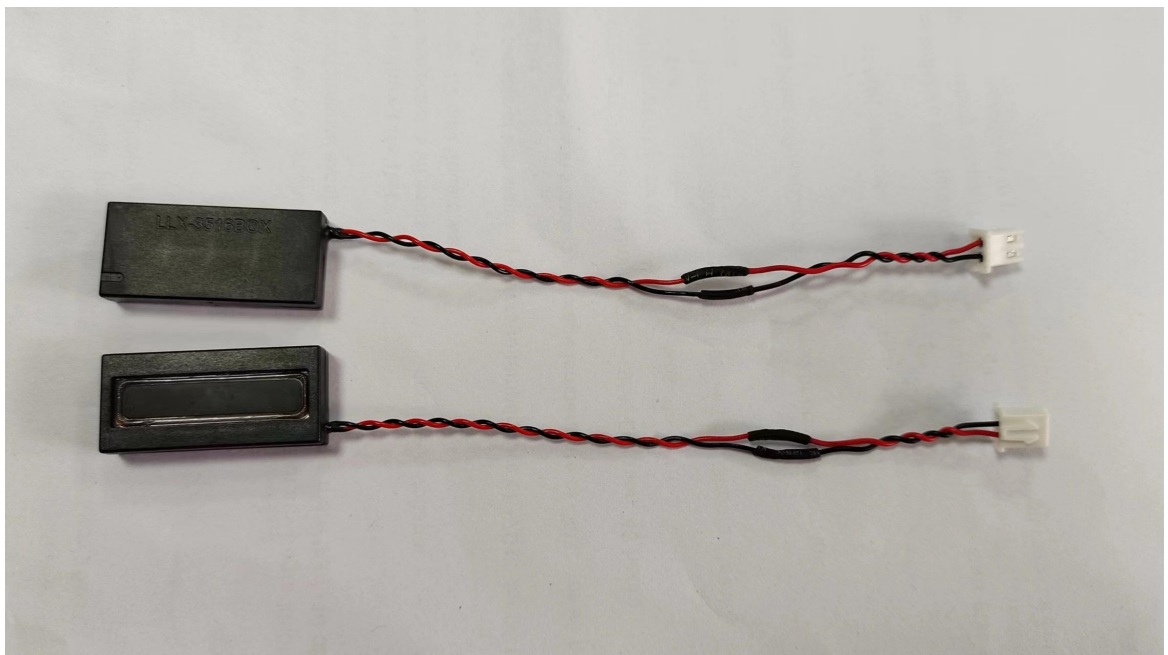
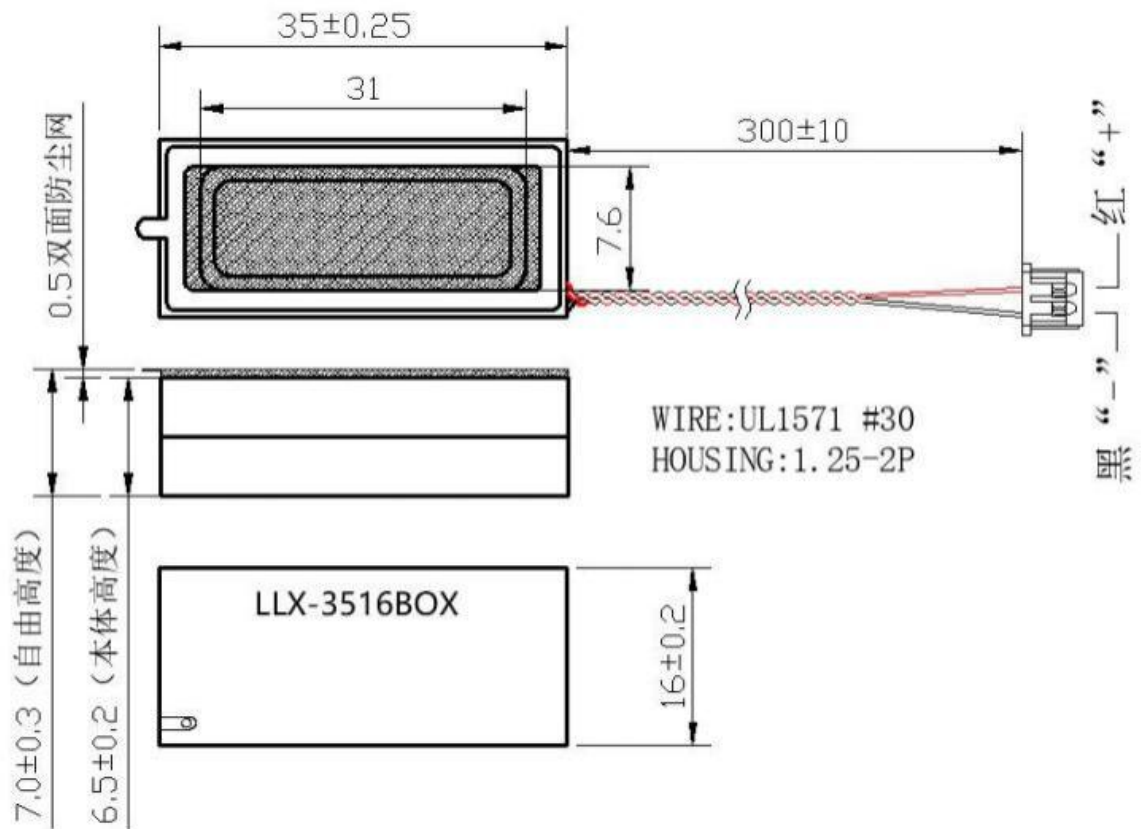
## 1.电气特性 *Electrical Characteristics*

项目 <i>Item</i>	规格 <i>Specification</i>
型号 <i>Type</i>	GSPK351607BOX-8R2W-L100
外观尺寸 <i>Dimension</i>	<i>Shown As Mechanical Drawings</i>
标示 <i>Marking</i>	<i>Shown As Mechanical Drawings</i>
膜片厚度 <i>Mylar Thickness</i>	<i>mm</i>
磁铁 <i>Magnet</i>	$9.8 \times 1.8N35$
音圈 <i>Voice Coil</i>	$10.4 \times 0.06 \times 8 \Omega$
阻抗 <i>Nominal Impedance</i>	$8 \Omega \pm 15\%$ At 1.0KHz
额定输入功率 <i>Rated Input Power</i>	1W
最大输入功率 <i>Max. Input Power</i>	2W
输出音压 <i>Mean Sound Pressure Level(S.P.L)</i>	$93 \pm 3dB$ By 0.1W/0.1M at 0.8, 1.0, 1.2, 1.5KHz AVG.
有效频宽 <i>Frequency Range</i>	F0~20000Hz
失真率 <i>Distortion</i>	5%Maximum At 0.89V Rated Input At 1.0KHz/Nom Power
异常音试验电压 <i>Buzzes&amp;Rattles</i>	3V
最低共振频率 <i>Lowest Resonanve Frequency(F0)</i>	$650Hz \pm 15\%$
负载测试 <i>Load Test</i>	White Noise 2W,24Hrs
净重量 <i>Net Weight</i>	9.85g
工作温度 <i>Operation Temperature</i>	-20℃~+50℃
存储温度 <i>Storage Temperature</i>	-25℃~+60℃
极性 <i>Polarity</i>	Diaphragm Shall Move Forward When Applies A Positive DC. Current To The "+" Or Marked On Terminal

## 2.产品外观 *Product Outside View*

单位 *Unit*:mm

公差 *Tolerance*:  $\pm 0.2\text{mm}$  立创出货焊线长  $L100\text{mm}$  不带端子, 可能找原厂订制端子线长

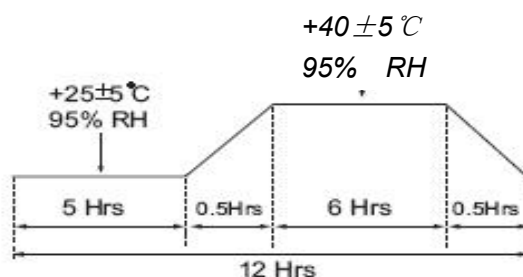


NO.	材料 PARTAME	材质 MATERIAL	数量 QTY
1	U 杯 Frame	SPCC	1
2	磁铁 Magnet	Nd-Fe-B	1
3	华司 Washer	SPCC	1
4	PCB 板 Terminal	FR-4	1
5	音圈 Voice Coil	Cu	1
6	振动膜 Diaphragm	PET	1
7	胶壳 Gasket	PAPER	1

### 3.可靠性试验 *RELIABILITY TEST*

试验项目 ITEM	测试方法 METHOD OF TEST	标准 STANDARD
高温试验 <i>Dry Heat Test</i>	+55℃±2℃，96h，恢复 2 小时后测量 <i>After being placed in a chamber with +55±2℃ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured.</i>	试验后所有指标都符合要求 <i>All specification must be satisfied after the test.</i>
低温试验 <i>Cold Test</i>	-25℃±2℃，96h，恢复 2 小时后测量 <i>After being placed in a chamber with -25±2℃ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured.</i>	试验后所有指标都符合要求 <i>All specification must be satisfied after the test.</i>
恒定湿热试验 <i>Humidity Test</i>	将产品置于+40℃±5℃，相对湿度保持在 95%中的环境中放置 96h，恢复 2 小时后测量。 (见图 FIG.1) <i>After being placed in a chamber with, 95%R.H. at +40℃±5℃ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured.</i> (Attached FIG.1)	试验后所有指标都符合要求 <i>All specification must be satisfied after the test.</i>
温度循环试验 <i>Temperature Cycle Test</i>	产品在-25℃的试验箱和温度为+55℃的试验箱各放置 30 分钟，为一次温度循环。产品承受 5 次温度循环后，放置 2h 后进行测量(见图 FIG.2) <i>After being placed in a chamber at -25℃±5℃ for 30 minutes, sounder shall be placed at room temperature(+20℃). After 15 minutes at this temperature, sounder shall be placed in a chamber at +55℃±5℃. After 30 minutes at this temperature, sounder shall be returned to room temperature(+20℃) for 15 minutes. After 5 above cycles, sounder shall be measured after being placed in natural condition for 2 hours. (Attached FIG.2)</i>	试验后所有指标都符合要求 <i>All specification must be satisfied after the test</i>

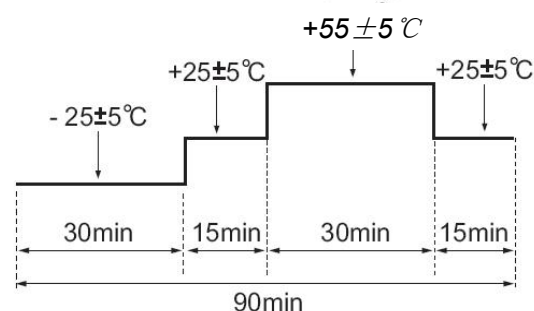
振动试验 <i>Vibration Test</i>	频率 10-55-10(Hz), 单振幅: 1.5 (mm) 扫频时间 1min ,X,Y,Z 各方向 2 小时 (共 6 小时) (见图 FIG.3) <i>Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency . Make this test for directions of X,Y,Z for 2Hrs each (Total 6Hrs)Sweep time is 1 minute. (Attached FIG.3)</i>	试验后所有指标都符合要求 <i>All specification must be satisfied after the test.</i>
跌落试验 <i>Drop Test</i>	於水泥地面上高度 1 公尺处, 依包装实体一角三棱作自由落体试验, 试验结束后包装外观无大改变, 内部喇叭外观和电性能符合要求。 <i>The speaker inside the packing must be OK after test.</i> <i>Direction of drop:1 corner,3 edges and 6 faces.</i> <i>Height:1 meter.</i>	试验后所有指标都符合要求 <i>All specification must be satisfied after the test.</i>
负载试验 <i>Load Test</i>	白噪音 1W, 连续 96 小时, 恢复 2 小时后外观、电性能符合要求 <i>Noise: White noise(EIA filter)</i> <i>Power: 1W</i> <i>Duration: 96hours</i>	试验后所有指标都符合要求 <i>All specification must be satisfied after the test.</i>



**FIG.1**

将产品置于+40℃±5℃，相对湿度保持在 95%中的环境中放置 96h，恢复 2 小时后测量。

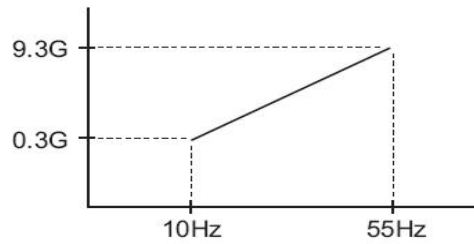
*After being placed in a chamber with, 95%R.H. at +40 °C ± 5 °C for 96h and then being placed in natural condition for 2 hours, sounder shall be measured.*



**FIG.2**

产品在-25℃的试验箱和温度为+55℃的试验箱各放置30分钟，为一次温度循环。产品承受5次温度循环后，放置2h后进行测量

*After being placed in a chamber at -25 °C ± 5 °C for 30 minutes, sounder shall be placed at room temperature(+20 °C). After 15 minutes at this temperature, sounder shall be placed in a chamber at +55 °C ± 5 °C. After 30 minutes at this temperature, sounder shall be returned to room temperature(+20 °C) for 15 minutes. After 5 above cycles, sounder shall be measured after being placed in natural condition for 2 hours.*

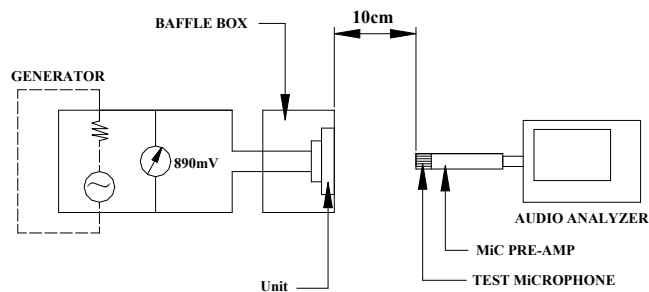


**FIG.3**

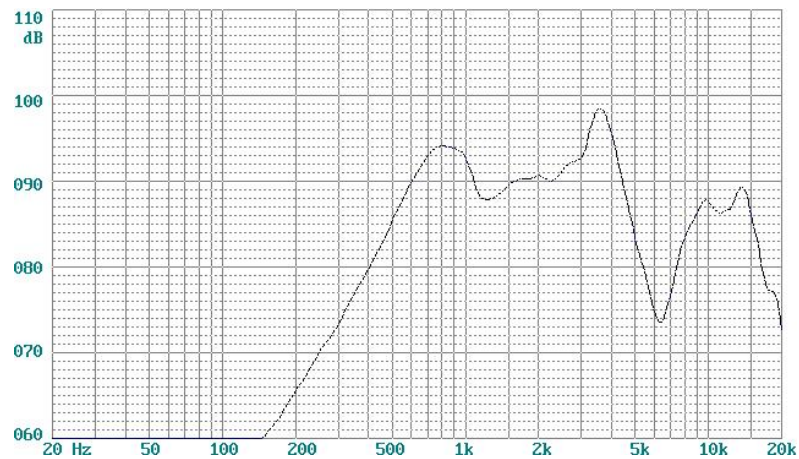
频率10-55-10 (Hz), 单振幅: 1.5 (mm) 扫频时间1min, X, Y, Z各方向2小时 (共6小时)

*Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency. Make this test for directions of X, Y, Z for 2Hrs each (Total 6Hrs) Sweep time is 1 minute.*

#### 4.测试原理图 *Measuring Circuit*



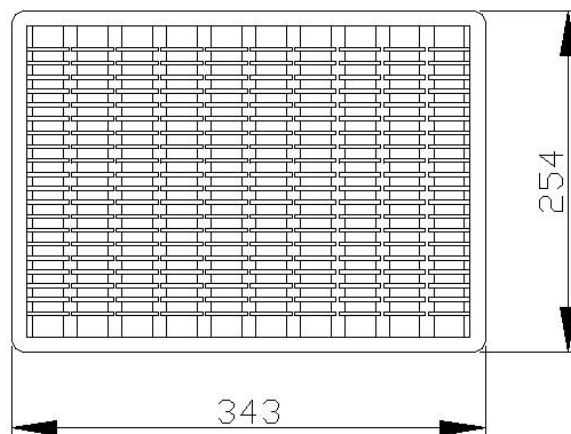
#### 5.频响曲线 *Frequency Response Curve*



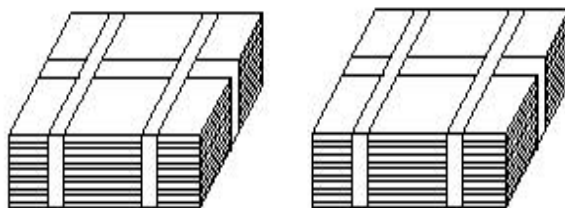
#### 6.正常测试条件 *Normal Test Conditions*

温度 *Temperature:* 17℃~25℃  
 湿度 *Relative Humidity:* 45%~85%(RH)  
 气压 *Air Pressure:* 86KPa~106KPa  
 判断测试条件 *Judgment Test Conditions*  
 温度 *Temperature:* 20±2℃  
 湿度 *Relative Humidity:* 60%~70%(RH)  
 气压 *Air Pressure:* 86KPa~106Kpa

## 7.包装方法 *Packing Method*



*40PCS speaker in per tray*



*2000 PCS speaker*

