

# 承 认 书

## SPECIFICATION

客户/ <i>Customer</i>	
客户型号/ <i>User's Model No.</i>	
本司型号/ <i>Part. No.</i>	凹孔音箱 3070-4Ω
数量/ <i>Quantity</i>	
版本/ <i>Edition</i>	A0

如本样品被认可，请签核回传 *Please send one back with signature upon approval of sample*

制 作 <i>Drafted By</i>	审 核 <i>Checked By</i>	批 准 <i>Approved By</i>

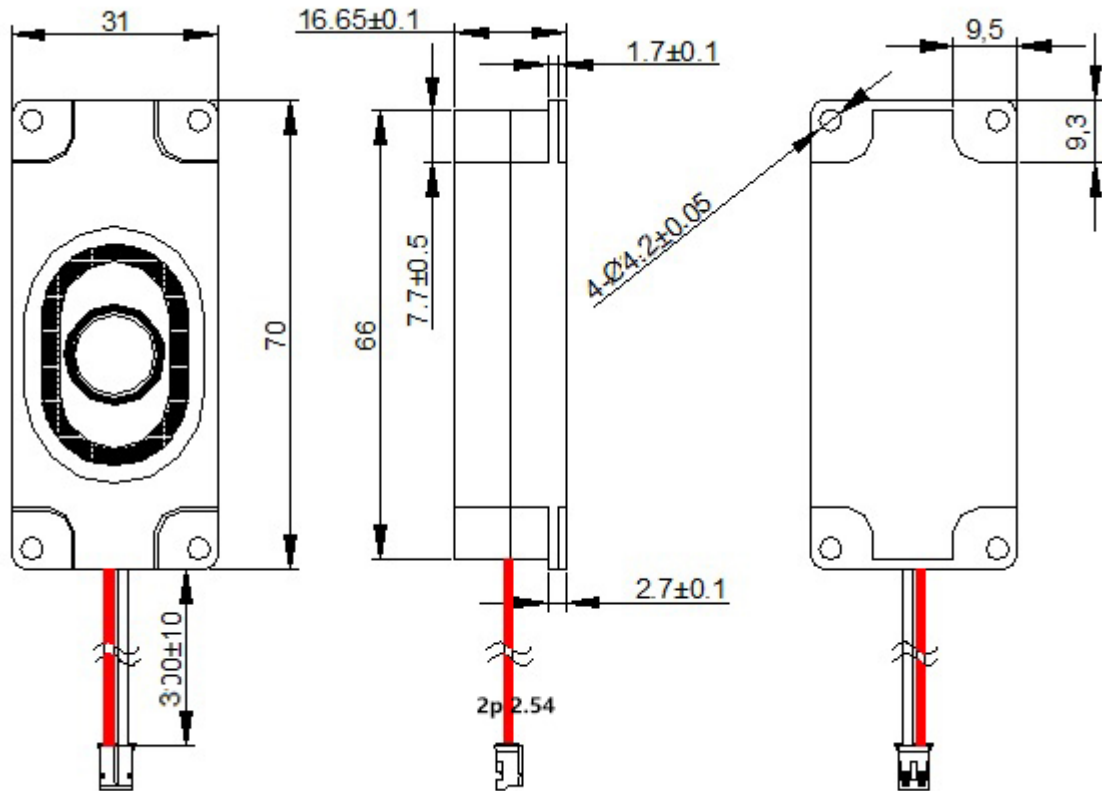
1. 电气特性 *Electrical Characteristics*

项目 <i>Item</i>	规格 <i>Specification</i>
型号 <i>Type</i>	<b>凹孔音箱 3070-4Ω</b>
外观尺寸 <i>Dimension</i>	Shown As Mechanical Drawings
标示 <i>Marking</i>	Shown As Mechanical Drawings
膜片厚度 <i>Mylar Thickness</i>	mm
磁铁 <i>Magnet</i>	12.5×1.5Hmm
音圈 <i>Voice Coil</i>	13.28×0.08×4
阻抗 <i>Nominal Impedance</i>	4 Ω ±15% At1.0KHz
额定输入功率 <i>Rated Input Power</i>	2W
最大输入功率 <i>Max. Input Power</i>	3W
输出音压 <i>Mean Sound Pressure Level(S.P.L)</i>	116 ±3dB By 2W/0.1M at0.8,1.0,1.2,1.5KHz AVG.
有效频宽 <i>Frequency Range</i>	F0~20000Hz
失真率 <i>Distortion</i>	5%Maximum At 4V Rated Input At 1.0KHz/Nom Power
异常音试验电压 <i>Buzzes&amp;Rattles</i>	4V
最低共振频率 <i>Lowest Resonanve Frequency(F0)</i>	450Hz ±15%
负载测试 <i>Load Test</i>	White Noise 0.2W,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: ±0.2mm*



NO.	材料 <i>PARTAME</i>	材质 <i>MATERIAL</i>	数量 <i>QTY</i>	
1	U 杯 <i>Frame</i>	SPCC	1	
2	磁铁 <i>Magnet</i>	Nd-Fe-B	1	
3	华司 <i>Washer</i>	SPCC	1	
4	端子板板 <i>Terminal</i>	FR-4	1	
5	音圈 <i>Voice Coil</i>	Cu	1	
6	振动膜 <i>Diaphragm</i>	PET	1	
7	胶壳 <i>Gasket</i>	PAPER	1	
8	引线 <i>Wire</i>	UL1007#	8	1

3.可靠性试验 **RELIABILITY TEST**

试验项目 <i>ITEM</i>	测试方法 <i>METHOD OF TEST</i>	标准 <i>STANDARD</i>
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 text 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 text. Direction of drop:1 corner,3 edges and 6 faces. 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 0.2W, 连续 24 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: 2W</i> <i>Duration: 24hours</i>	试验后所有指标都符合要求 <i>All specification must be satisfied after the test.</i>

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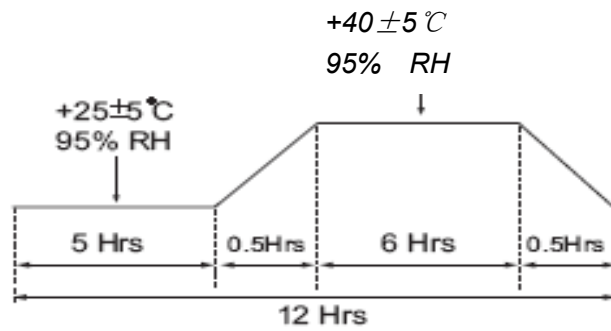


FIG. 1

将产品置于+40°C±5°C，相对湿度保持在95%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.*

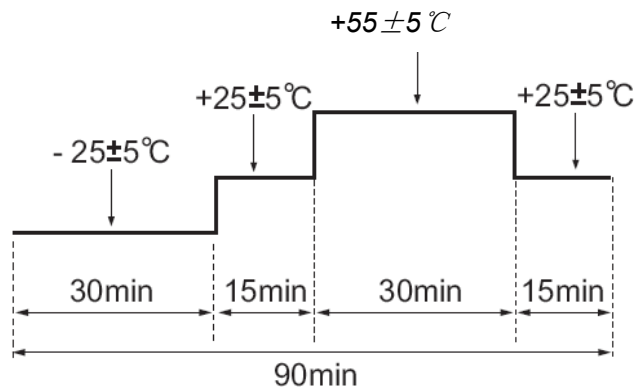
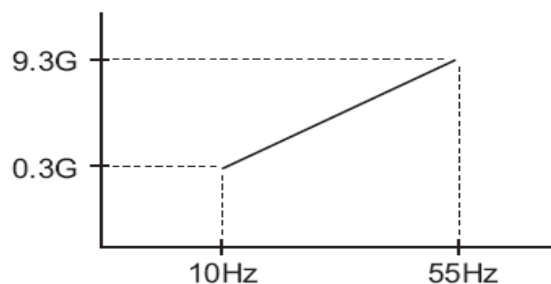


FIG. 2

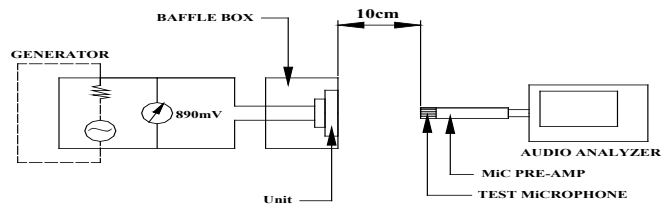
产品在-25°C的试验箱和温度为+55°C的试验箱各放置30分钟，为一次温度循环。产品承受5次温度循环后，放置2h后进行测量

*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*

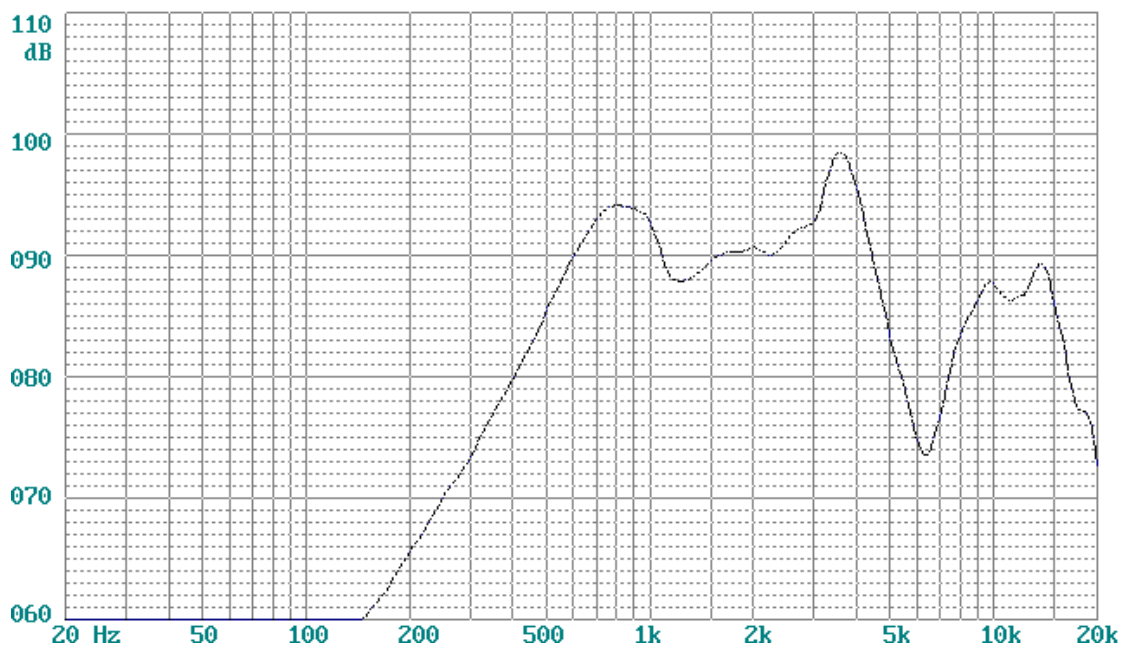


hours. FIG. 3

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 text for directions of X,Y,Z for 2Hrs each (Total 6Hrs) Sweep time is 1 minute.*



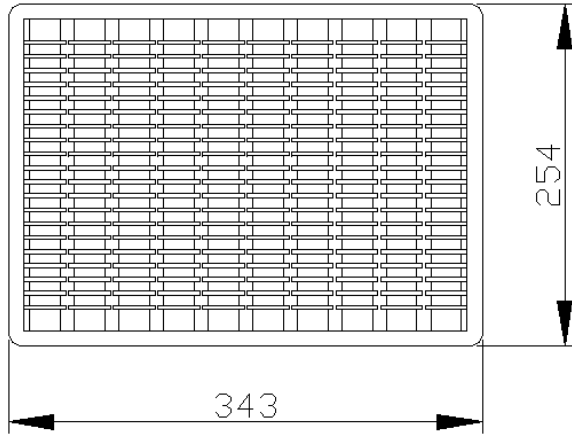
## 5. 频响曲线 *Frequency Response Curve*



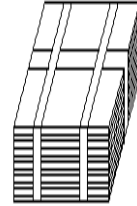
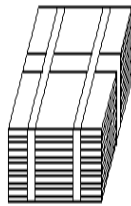
## 6. 正常测试条件 *Normal Test Conditions*

温度 *Temperature*: 17°C~25°C  
 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°C  
 湿度 *Relative Humidity*: 60%~70%(RH)  
 气压 *Air Pressure*: 86KPa~106Kpa

## 7. 包装方法 *Packing Method*



*30PCS speaker in per tray*



*1200 PCS speaker*

