規 格 承 認 書

PECIFICATION FOR APPROVAL

客　戶
CUSTOMER　：　立创

項　目
ITEM　：　腔体喇叭

型　號
TYPE　：　GSPK2810BOX-8R2W-L100S-2.0T

描述
DESCRIPTION ：　L28*W28 *H10MM　8Ω 1-2W 焊线 S.P.L：99dB+/- 3dB

客戶料號
CUSTOMER NO. ：

規 格 書 號
SPECIFICATION NO.：

版　本
EDITION NO.　：　V1.0

日　期
DATE　：　2024-5-24

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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網址：HTTP://WWW.INGHAI.COM

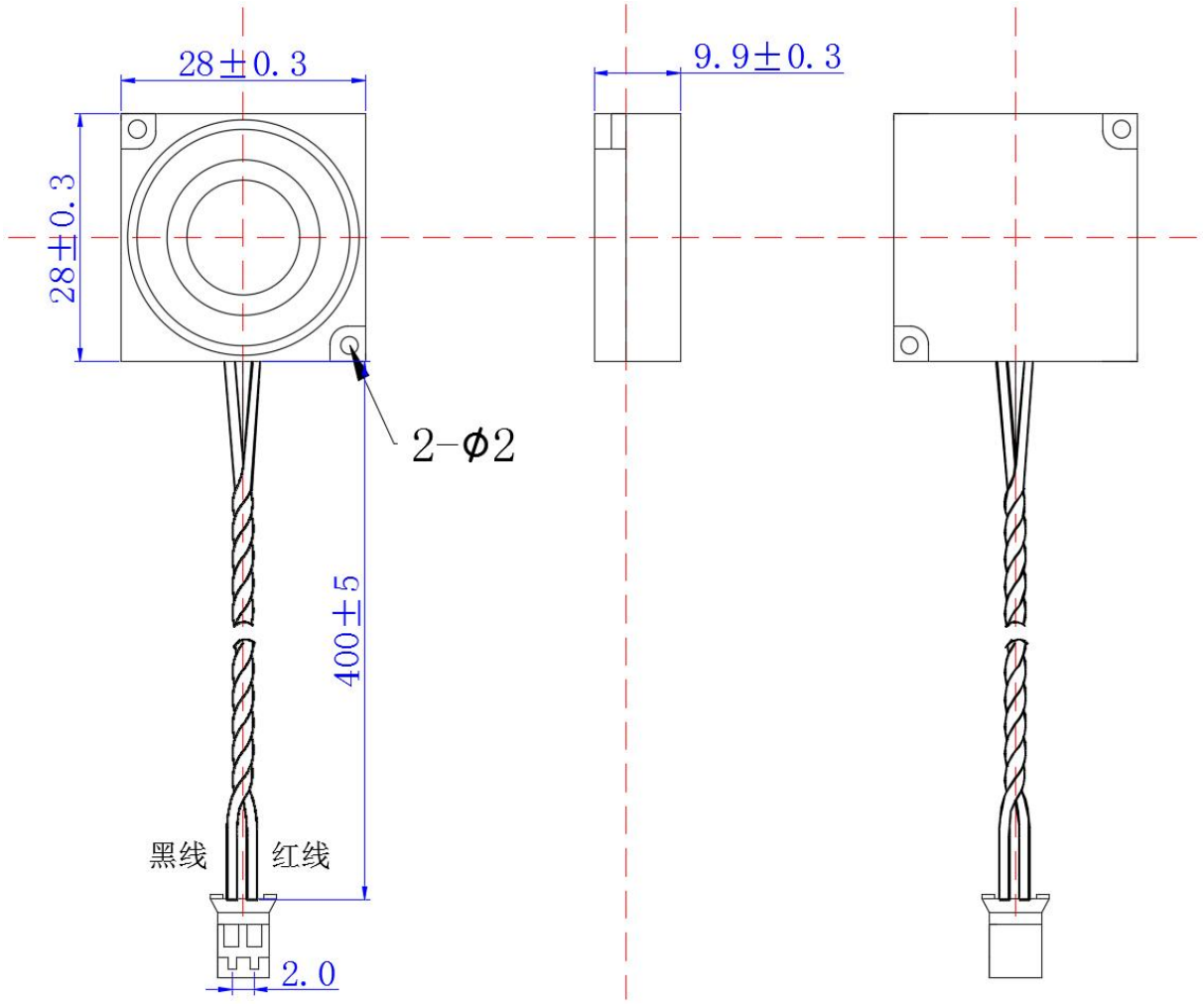
1.电气特性 *Electrical Characteristics*

项目 *Item*	规格 *Specification*
型号 *Type*	***音箱 282810-8Ω2W***
外观尺寸 *Dimension*	*Shown As Mechanical Drawings*
标示 *Marking*	*Shown As Mechanical Drawings*
膜片厚度 *Mylar Thickness*	*mm*
磁铁 *Magnet*	*12.5*1.5*
音圈 *Voice Coil*	
阻抗 *Nominal Impedance*	*8Ω±15% At1.0KHz*
额定输入功率 *Rated Input Power*	*1.5W*
最大输入功率 *Max. Input Power*	*2W*
输出音压 *Mean Sound Pressure Level(S.P.L)*	*99±3dB By 0.1W/0.1M at0.8,1.0,1.2,1.5KHz AVG.*
有效频宽 *Frequency Range*	*200~3000Hz*
失真率 *Distortion*	*5%Maximum At 0.89V Rated Input At 1.0KHz/Nom Power*
异常音试验电压 *Buzzes&Rattles*	*4.0V*
最低共振频率 *Lowest Resonanve Frequency(F0)*	*500Hz±15%*
负载测试 *Load Test*	*White Noise 0.2W,24Hrs*
净重量 *Net Weight*	*7.9g*
工作温度 *Operation Temperature*	*-20℃~+50℃*
存储温度 *Storage Temperature*	*-25℃~+60℃*
极性 *Polarity*	*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 *Unite:mm*

公差 *Tolerance:±0.5mm*



NO.	材料 PARTAME	材质 MATERIAL	数量 QTY
1	铁壳 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	ZHI	1
7	垫圈 Gasket	PAPER	1
8	引线 Wire	UL1007#26#	1
9	端子	2.0T/2P	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 *Dry Heat Test*	+55℃±2℃，96h，恢复 2 小时后测量 *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.*	试验后所有指标都符合要求 *All specification must be satisfied after the test.*
低温试验 *Cold Test*	-25℃±2℃，96h，恢复 2 小时后测量 *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.*	试验后所有指标都符合要求 *All specification must be satisfied after the test.*
恒定湿热试验 *Humidity Test*	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) *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.* *(Attached FIG.1)*	试验后所有指标都符合要求 *All specification must be satisfied after the test.*
温度循环试验 *Temperature Cycle Test*	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) *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)*	试验后所有指标都符合要求 *All specification must be satisfied after the test* .
振动试验 *Vibration Test*	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) *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)*	试验后所有指标都符合要求 *All specification must be satisfied after the test.*
跌落试验 *Drop Test*	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。 *The speaker inside the packing must be OK after text.* *Direction of drop:1 corner,3 edges and 6 faces.* *Height:1 meter.*	试验后所有指标都符合要求 *All specification must be satisfied after the test.* .
负载试验 *Load Test*	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 *Noise: White noise(EIA filter)* *Power: 3W* *Duration: 24hours*	试验后所有指标都*符合要求* *All specification must be satisfied after the test.*

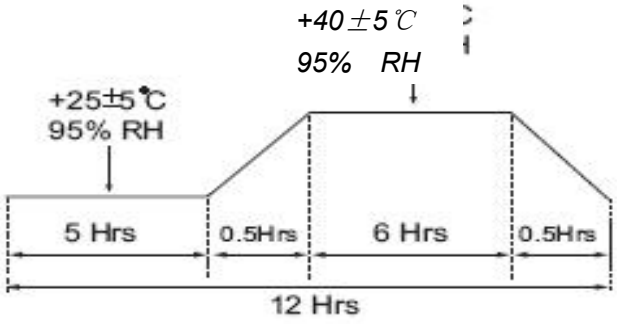


FIG.1

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 ℃±5 ℃ for 96h and then being placed in natural condition for 2 hours, sounder shall be measured.

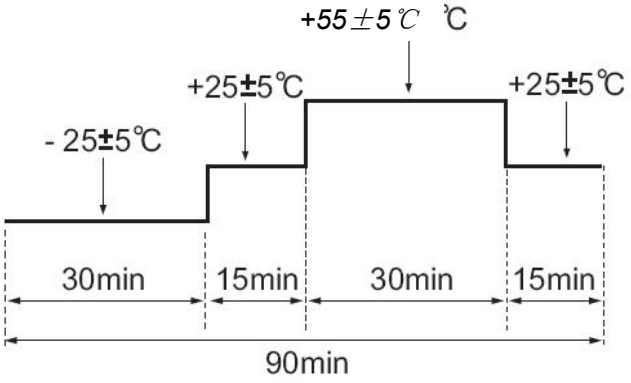


FIG.2

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 ℃±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.

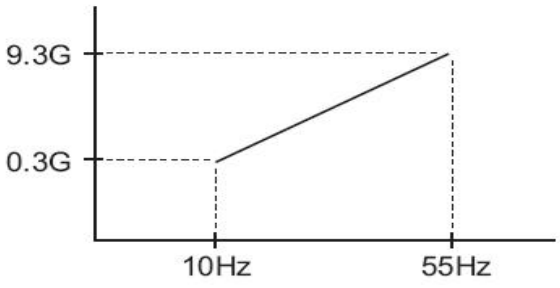
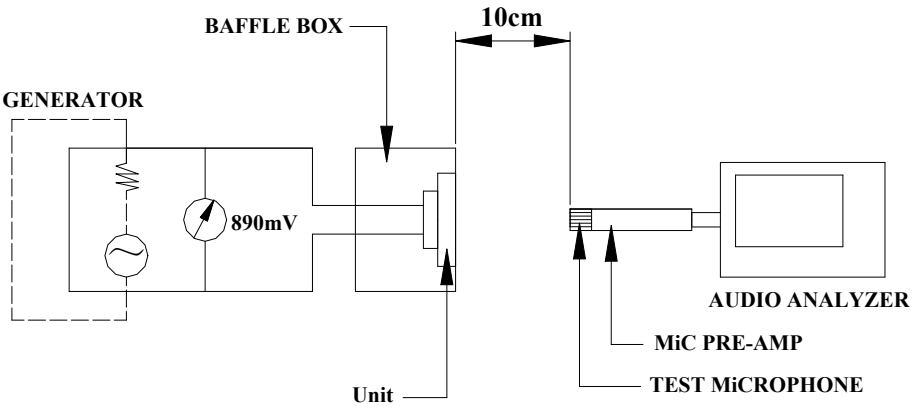


FIG.3

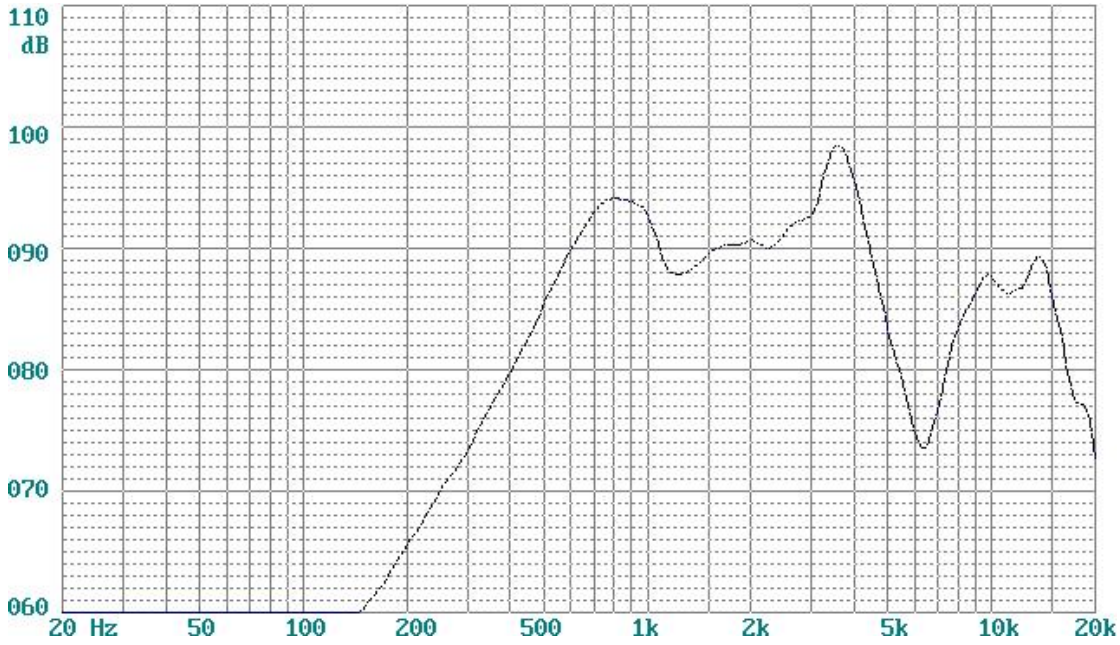
频率10-55-10(Hz)，单振幅：1.5（mm）扫频时间1min ,X,Y,Z各方向2小时（共6小时）

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.

4.测试原理图 *Measuring Circuit*



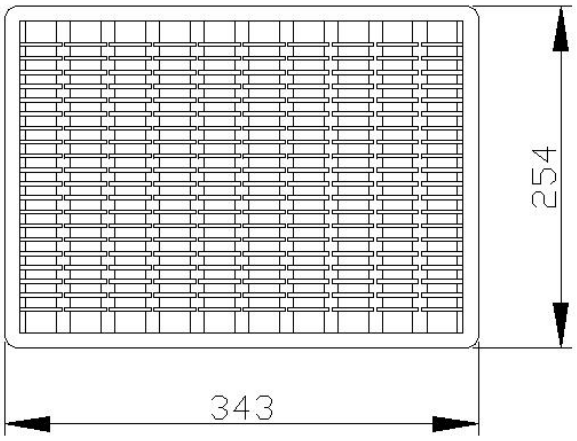
5.频响曲线 *Frequency Response Curve*



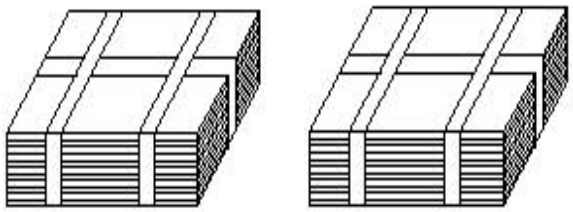
6.正常测试条件 *Normal Test Conditions*

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*

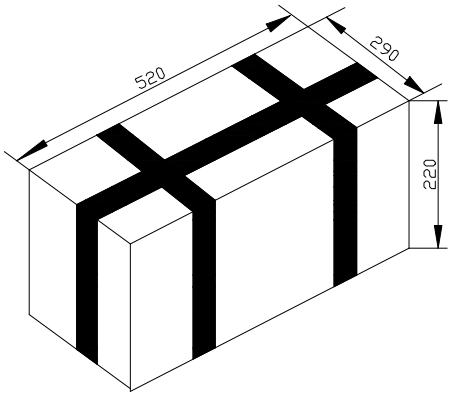
7.包装方法 *Packing Method*



100PCS speaker in per tray



2000 PCS speaker



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