

# 規格承認書

PECIFICATION FOR APPROVAL

客 戶  
CUSTOMER : 立創  
項 目  
ITEM : 铁壳内磁方形喇叭  
型 號  
TYPE : GSPK4020057TN-4R2W  
描述  
DESCRIPTION :  $\phi$  40.0\*W20.0\*H5.7mm 4ohm 2W S.P.L: 105dB+/- 3dB  
客戶料號  
CUSTOMER NO. :  
規格書號  
SPECIFICATION NO.:  
版 本  
EDITION NO. : V1.0  
日 期  
DATE : 2020-7-9

## 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. 范围/SCOPE

该规格书适用于移动电话等使用的扬声器单元。

This Specification Applies to The Speaker, Used In Mobilephone sec.

## 2. 型号/PART No

客户型号/Customer'S Part no:

3. 本公司型号/Our Part no : GSPK4020057TN-4R3W

## 4. 尺寸与重量/TYPER

40\*20\*5.7 电动式 40\*20 \*5.7 Rectangle Dynamic type

## 5. 尺寸与重量/DIMENSION

尺寸: 40\*20\*5.7 参考外观图面 (Figure.3)

Dimension: Refer To The Appearance Drawing. (Figure.3)

重量:  $\pm 0.1g$

Weight:  $\pm 0.1g$

## 6. 标准测试条件/STANDARD TEST CONDITION

在没有其他特别指定时, 测试应如下所记的标准测试条件下进行。

Unless Otherwise Specified, The Test Shall Be Made Under The Standard Conditions.

- 温度/Temperature :  $17^{\circ}\text{C}\sim 25^{\circ}\text{C}$  (Standard:  $20.5^{\circ}\text{C}$ )
- 相对湿度/Relative Humidity :  $45\%\sim 85\%$  (Standare: 65%)
- 大气压力/Pressure : 86Kpa~106Kpa(Standard: 101.3 Kpa)

## 7. 使用与储存温度/OPERATION AND STORAGE TEMIPERATURE

- 使用温度/Operation Temperature :  $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$
- 储存温度/Storage Temperature :  $-30^{\circ}\text{C}\sim 70^{\circ}\text{C}$

## 8. 电气特性规格/Electrical Specification

参考特性规格页面/Refer To The Appearance Page

### 1. 外观与尺寸: 参考附图

Appearance & Dimensions: Refer To The Appearance Drawing

### 2. 额定/Rated

项目/Items	规格/Specification	条件/Conditions
额定阻抗/Rated Impedance	4Ω±20%	at 1kHz 100 mV
额定输入功率/Rated input power	2.0W	
最大输入功率/Max input power	3.0W	
最低共振频率 /Resonant Frequency	800±20% Hz	1V Input
灵敏度/Sound pressure level	105±3dB	SPL at 1.05kHz in Average (0dB SPL=20μPa) Measuring condition: 0.5W (Sine wave) 0.1m measured with baffle shown in Figure4
有效频率范围 /Frequency response	FO~20KHz	
总谐波失真/THD	≤5% at 1kHz	

### 3. 动作检查/OPERATIONAL TEST

项目/ITEM	信号/SIGNAL	输入/INPUT	扫频范围/SWEEP RANGE
SWEEP TEST	Sine Wave	2.0W(3.5V)	200~5000Hz

- 在动作检查中不得有异常音出现
- Without Abnormal Sound In Operation Test.

### 4. 负荷实验/LOAD TEST

项目/ITEM	信号/SIGNAL	I 输入/INPUT	驱动时间 DRIVING TERM
Continuous load Test	PINK Noise/Jis Filter (Refer To Jis C5531)	2.0w(3.5V) (RMS)	96hours (with 5cc test box)

- 在负荷实验后不得有异常音出现,灵敏度应保持在限度范围内。
- Without Abnormal Sound After Test, And The S.P.L Shall Be In The Limit.
- 负荷实验应使用粉红噪声信号
- Running Test Shall Use pink Noise Signal

Name

Speaker

Customer's Part No:

Our Part No: GSPK4020057TN-4R2W

## SPEKER SPECIFICATION(P5/8)

### 5. 可靠性实验/Reliability Test

项目/Item	规格/Specification	判定/Judgement
高温放置实验 Hightemp.Storage Test	85°C±2°C/20~40%RH/96HR & 20°C±5°C,1H	实验完成后产品应满足上述第 1, 2, 3 项要求. Clause 1, 2, 3 Shallbe Satisfied Afier Test
低温放置实验 Lowtemp.Storage Test	-40±2°C/20~40%RH/96HR & 20°C±5°C,1H	
耐湿实验 Humidity Test	40°C ± 2°C/90~95%RH/96HR & 20°C ± 5°C, 1H	
耐高温负荷实验 Heatrunning Test	85°C ± 2°C/20~40%RH/-	
耐低温负荷实验 Coldrunning Test	-40°C ± 2°C/20~40%RH/-	
热冲击实验 Thermalshock Test	+85°C ± 2°C—30°C ± 2°C—+85°C ± 2°C 5Cycles	
震动实验 Vibration Test	10Hz—40Hz—10Hz/60s, 1.0mm (X: 2H, Y: 2B)	

### 6. 跌落实验/SHOCK TEST

项目/Item	条件/Condition	判定/Judgement
Drop Test	产品在包装状态下,从 1 米高处向混凝土地面跌落:1 角:1 次:3 边:每条边 1 次:6 面:每 1 面 1 次 Speaker Shall Be Packed In The Carton And Dropped The Concrete Floor(H:1m)	实验完成后新产品应满足上述第 3 项要求 Clause 3 Shallbe Satisfied Afier Test

Name

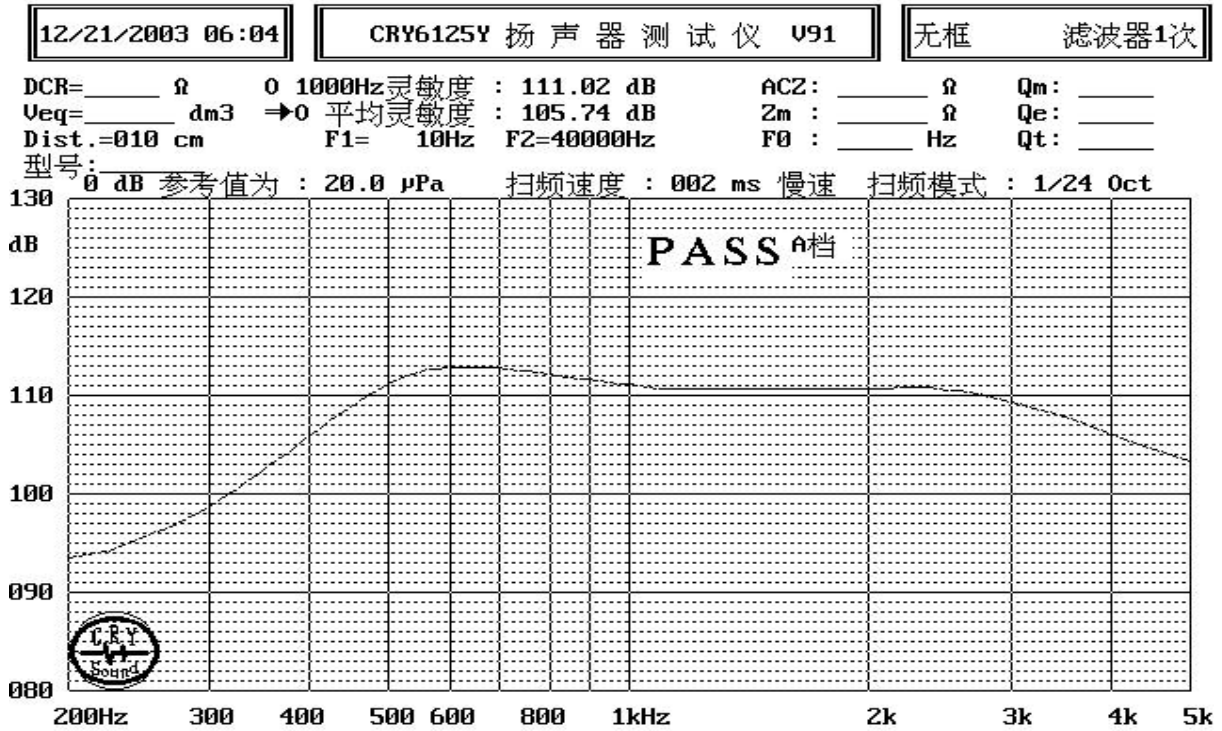
Speaker

Customer's Part No:

Our Part No: GSPK4020057TN-4R2W

# SPEKER SPECIFICATION(P6/8)

## 典型频响曲线 / TYPICAL FREQUENCY RESPONSE CURVE



### FREQUENCY MEASURING CIRCUIT AND EAR PIECE

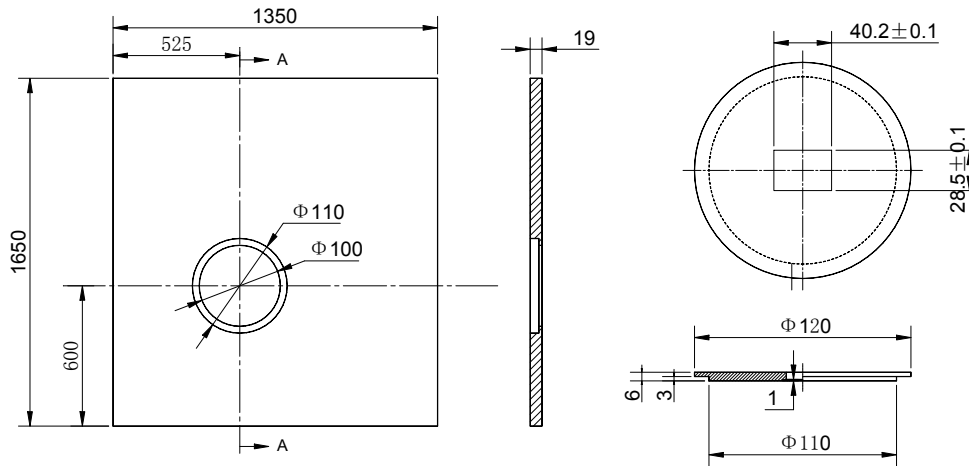
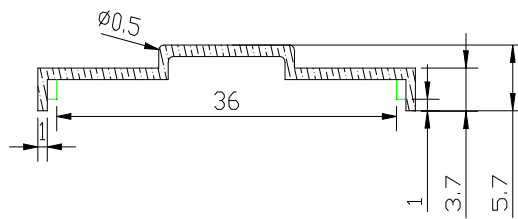
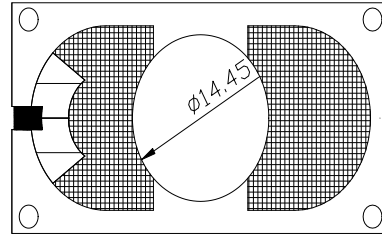
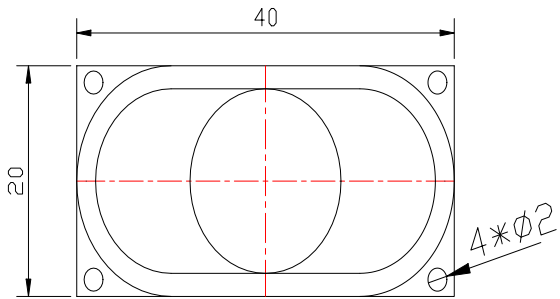


Figure.2

Name  <p style="text-align: center;">Speaker</p>	Customer's Part No:
	Our Part No: GSPK4020057TN-4R2W

# SPEKER SPECIFICATION(P7/8)

## ■ 产品外观图/ DIMENSIONAL DRAWING



ITEM	DESCRIPTIONS	SPEC.	SUPPLIER	QTY	REMARK
1	Front foam ring	Adhesive		1	
2	Front cover	1Cr18Ni9		1	
3	Diaphragm	纸		1	
4	Voice coil	Self-bonding wire		1	
5	Inner pole shoe	08F,		1	
6	Magnet	Nd-Fe-B		1	
7	U YOKE	SPCE		1	
8	PCB	T0.3		1	
9	Lead wire			2	
10	Yoke assembly	PBT, black		1	
11	Insulator pad	Mylar		0	

Name

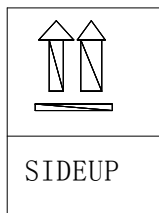
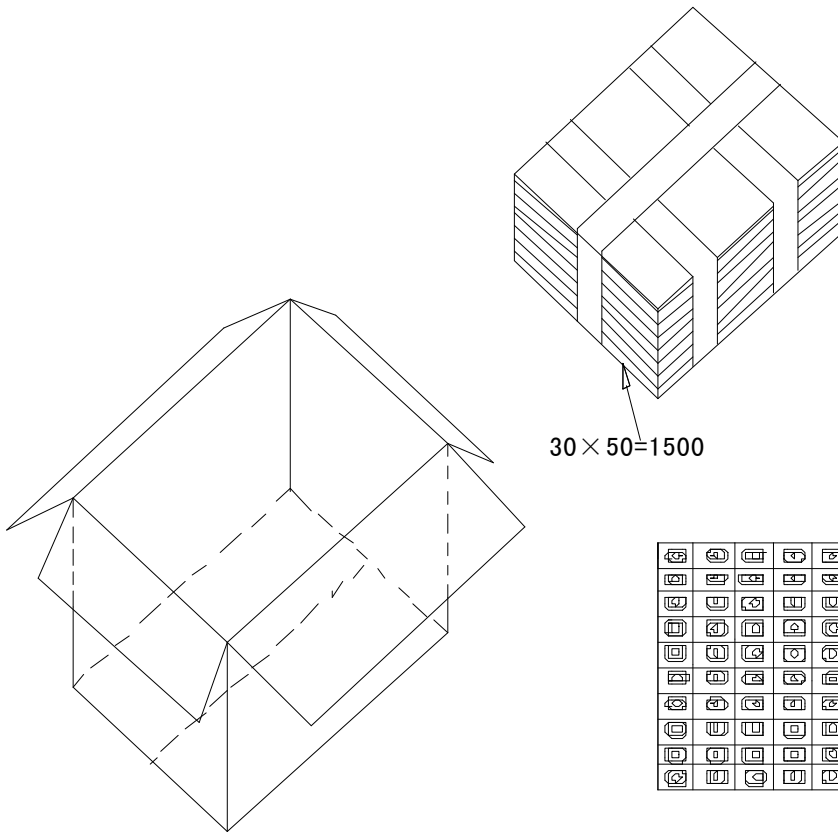
Speaker

Customer's Part No:

Our Part No: GSPK4020057TN-4R2W

## SPEKER SPECIFICATION(P8/8)

### ■ 包装明细/Packaging details



## DYNAMIC SPEAKERS

TYPE:

QUANTITY: 1500PCS

GROSS WT: 5.5Kg

NET WT: 2.5Kg

CM: 43\*28\*47 **cm**

Name

Speaker

Customer's Part No:

Our Part No: GSPK4020057TN-4R2W



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