

規格承認書

PECIFICATION FOR APPROVAL

客戶
CUSTOMER : 立創

項目
ITEM : 微型扬声器(塑壳内磁)

型號
TYPE : GSPK3070PN-4R2W-L100 (焊线可定制)

描述
DESCRIPTION : L69.9 x W31 x H8.6 MM 磁芯 12.5*2mm 4Ω 2W S.P.L: 88 dB+/- 3dB

客戶料號
CUSTOMER NO. : _____

規格書號
SPECIFICATION NO.: _____

版本
EDITION NO. : V1.0

日期
DATE : 2020-6-15

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 |
|-----------------|------------------|-------------------|
| 周明 | 刘承成 | |

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電話 / TEL: 0769-83060958 傳真 / FAX: 0769-81608993
網址: [HTTP://WWW.INGHAI.COM](http://www.inghai.com)

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 : GSPK3070PN-4R2W-L100

4. 尺寸与重量/TYPER

69.9*31*8.6mm 电动式 Rectangle Dynamic type

5. 尺寸与重量/DIMENSION

尺寸: 69.9*31*8.6mm 参考外观图面 (Figure.3)

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

重量: 11 /±0.5g

Weight: 11/±0.5g

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°C~25°C (Standard: 20.5°C)
- 相对温度/Relative Humidity : 45%~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°C~75°C
- 储存温度/Storage Temperature : -30°C~ 70°C

8. 电气特性规格/Electrical Specification

参考特性规格页面/Refer To The Appearance Page

SPEAKER SPECIFICATION (P3/7)

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 | 8.0 Ohm±20% | at 1kHz 100 mV |
| 额定输入功率/Rated input power | 2.0 W | |
| 最大输入功率/Max input power | 3.0 W | |
| 最低共振频率 /Resonant Frequency | 450±25% Hz | 1V Input |
| 灵敏度/Sound pressure level | 88±3dB | SPL at 1.05kHz in Average (0dB SPL=20μPa) Measuring condition: 1.0W (Sine wave) 0.5m measured with baffler 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 | 2W(4V) | 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) | 2w(4V) (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

MICRO SPEAKER

Customer's Part No:

Our Part No: **GSPK4030PN-1M4R3W-L**

SPEKER SPECIFICATION(P4/7)

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 | 75°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 | 75°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 | +75°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

MICRO SPEAKER

Customer's Part No:

Our Part No: **GSPK4030PN-1M4R3W-L**

SPEKER SPECIFICATION(P5/7)

典型频响曲线 /TYPICAL FREQUENCY RESPONSE CURVE

12/21/2003 06:04

CRY6125Y 扬声器测试仪 V91

无框 滤波器1次

DCR= _____ Ω 0 1000Hz灵敏度 : 111.02 dB ACZ: _____ Ω Qm: _____
 Veq= _____ dm3 \rightarrow 0 平均灵敏度 : 105.74 dB Zm : _____ Ω Qe: _____
 Dist.=010 cm F1= 10Hz F2=40000Hz F0 : _____ Hz Qt: _____
 型号: _____
 0 dB 参考值为 : 20.0 μ Pa 扫频速度 : 002 ms 慢速 扫频模式 : 1/24 Oct

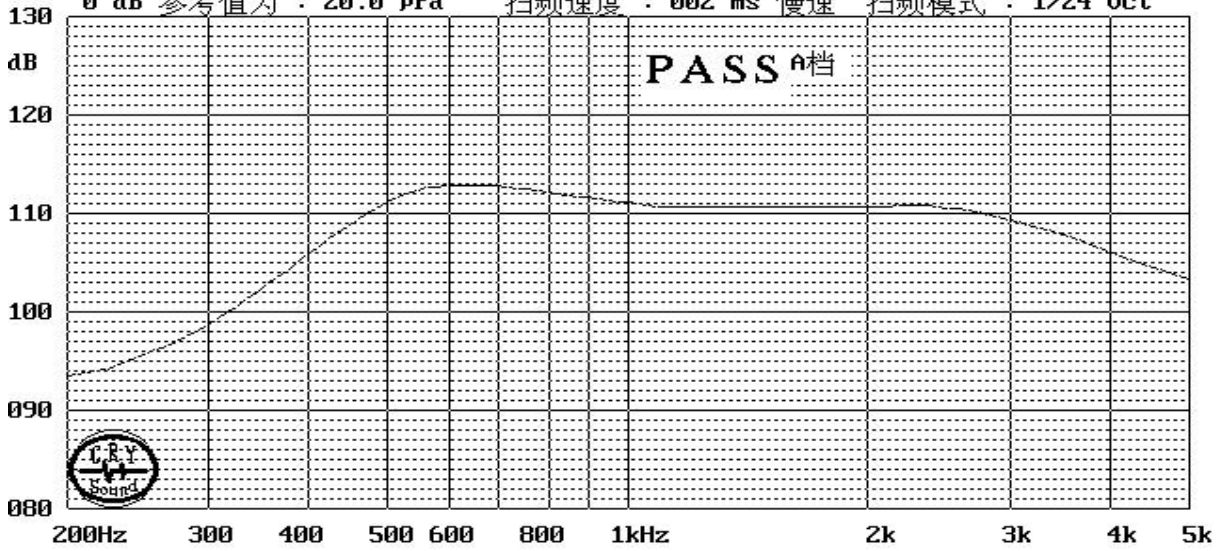


Figure.1

FREQUENCY MEASURING CIRCUIT AND EAR PIECE

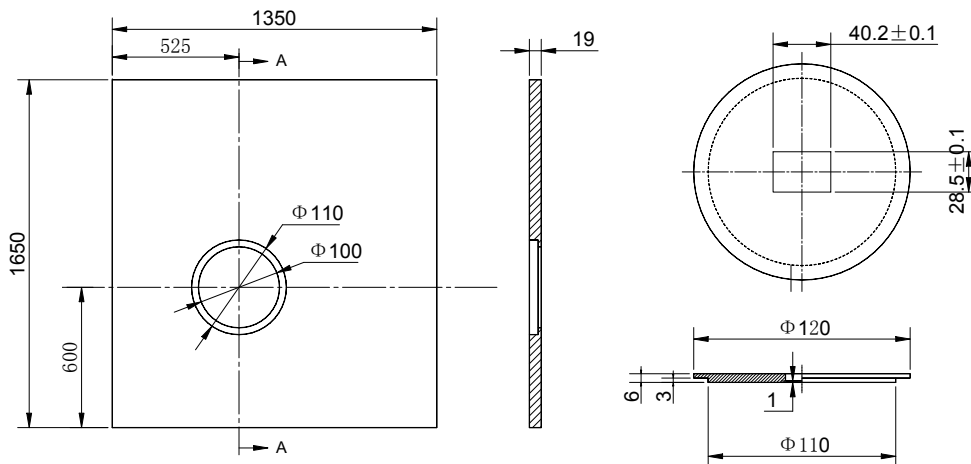


Figure.2

Name

MICRO SPEAKER

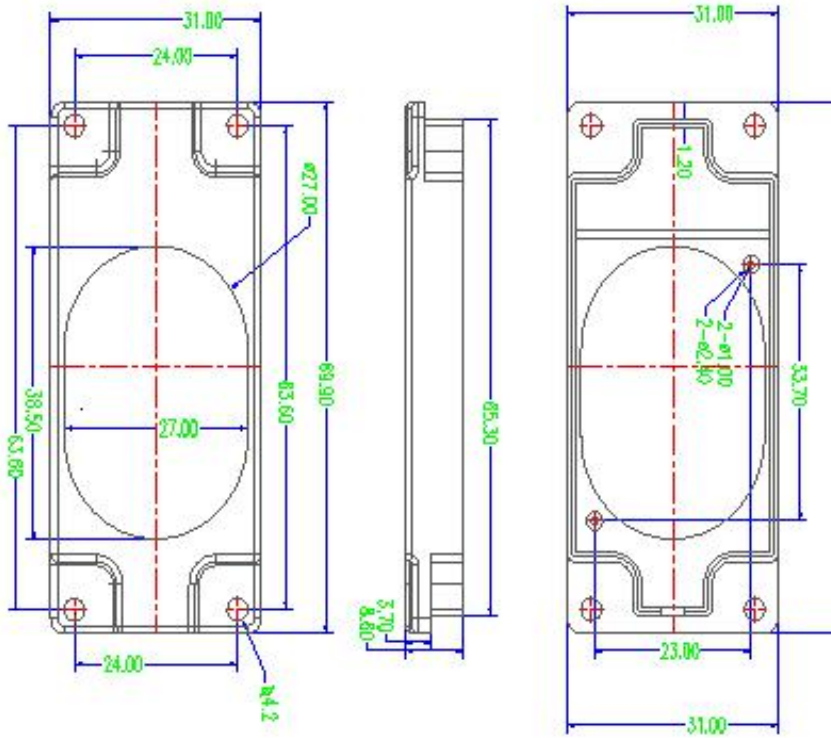
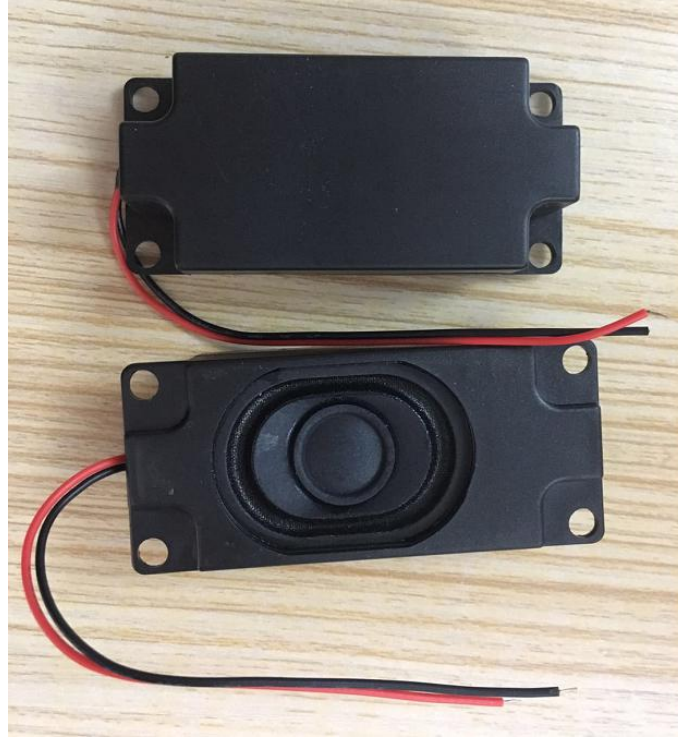
Customer's Part No:

Our Part No: **GSPK4030PN-1M4R3W-L**

SPEKER SPECIFICATION(P6/7)

■ 产品外观图/ DIMENSIONAL DRAWING

尺寸公差: $\pm 0.3\text{mm}$



| 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

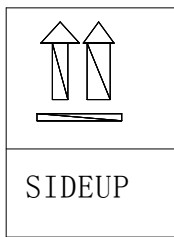
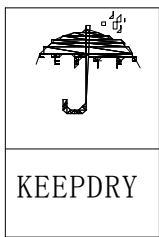
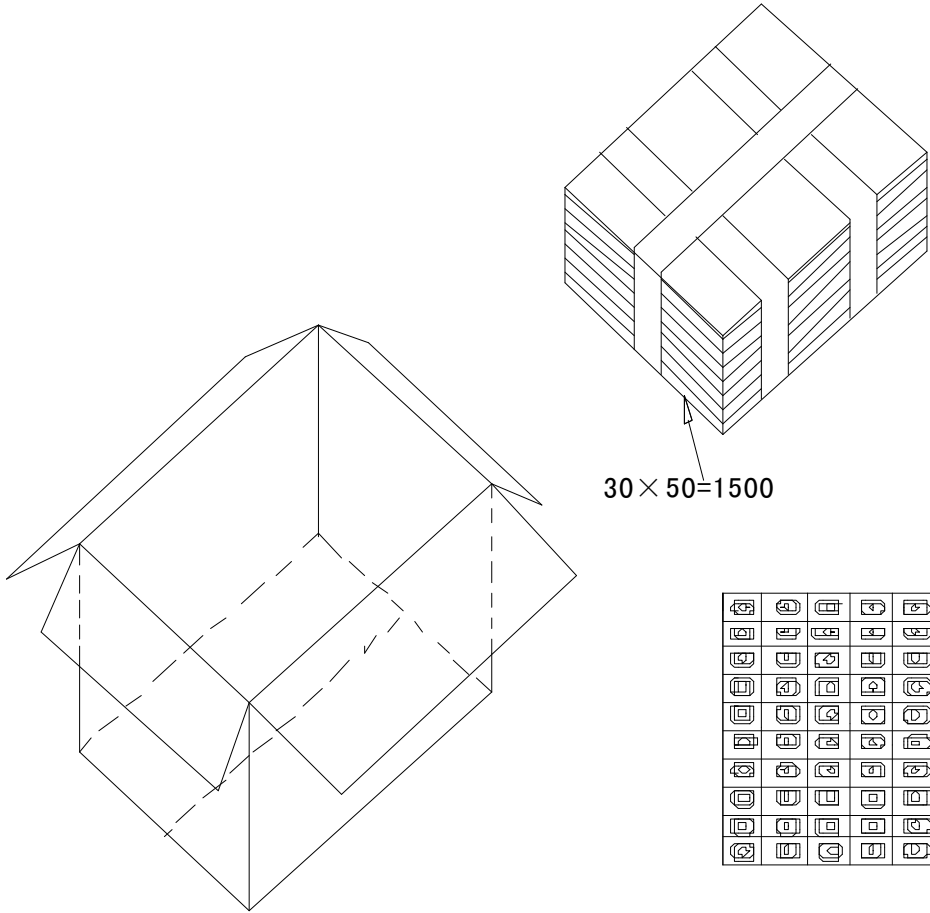
MICRO SPEAKER

Customer's Part No:

Our Part No: **GSPK4030PN-1M4R3W-L**

SPEKER SPECIFICATION(P7/7)

■ 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

MICRO SPEAKER

Customer's Part No:

Our Part No: **GSPK4030PN-1M4R3W-L**

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