



深圳市兴华鑫电子科技有限公司

Shenzhen xinghuaxin Electronic Technology Co., Ltd

# 承認書

## SPECIFICATION FOR APPROVAL

客戶 (Customer):

客戶料號 (Customer P/N):

興華鑫型號 (Supplier P/N):

XHXDZ-2030 三合一

產品名稱 (Description):

喇叭 (Speaker)

產品規格 (Specification):

三合一喇叭

|                                                |                                        |     |     |
|------------------------------------------------|----------------------------------------|-----|-----|
| 客戶承認欄<br>(Customer Authorization<br>Signature) | 深圳市興華鑫電子科技有限公司 承認欄<br>(Supplier Audit) |     |     |
|                                                | 審核                                     | 檢查  | 制作  |
|                                                | 唐国兴                                    | 唐玉来 | 吴银娟 |
|                                                | 日期: 2022 年 04 月 19 日<br>版次: A          |     |     |

声音让生活更精彩!

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## 产品规格内容

### 1.Scope

The applications of this Speaker are subjected to the following items;

### 2.General specifications.

| N<br>O. | ANALYSIS ITEMS       | SPECIFICATIONS                  |                              |
|---------|----------------------|---------------------------------|------------------------------|
| 2.1     | APPLICATION          |                                 |                              |
| 2.2     | TRANSDUCING FUNCTION | Speaker&Reciver&Vibrating motor |                              |
| 2.3     | OUT SIDE SIZE        | 20 × 30 mm                      |                              |
| 2.4     | UNIT WEIGHT          | 5.0g                            |                              |
| 2.5     | NOMINAL IMPEDANCE    | 7.4 $\Omega$ $\pm$ 15% $\Omega$ | At 1.0 KHZ 1.0Vms(sine wave) |

### 3.Micro-speaker mode characteristics(Application for near sound field)

| NO. | ANALYSIS ITEMS                  | SPICIFICATIONS                                                                                                              | CONDITIONS                           |
|-----|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 3.1 | RESONANCE FREQUENCY             | 180HZ $\pm$ 5HZ<br>(750HZ $\pm$ 20%HZ)                                                                                      | At fo HZ 1.0vrms<br>(sine wave)      |
| 3.2 | FREQUENCY RANGE                 | F0 HZ-----20HKHZ                                                                                                            | Application:<br>full audible signals |
| 3.3 | SOUND PRESSURE LEVEL            | 90dB $\pm$ 3dB                                                                                                              | At 0.1m 0.89V sine wave              |
|     |                                 | At 0.1m/0.1W8,10,12,15 ×100 HZ Average(0dB SPL) =20 $\mu$ bar                                                               |                                      |
| 3.4 | RATED POWER                     | 0.8w                                                                                                                        | At 2.60V (sine wave)                 |
| 3.5 | MAXIMUM POWER                   | 1.0w                                                                                                                        | At2.83V (sine wave)/1minute          |
| 3.6 | NON-LINEAL DISTORTION<br>FACTOR | Less than max 10%                                                                                                           | 1KHZ1.0V (Sine Wave)                 |
| 3.7 | OPERATION TEST                  | No one should perceive noise of sine wave 2.60V of 300~3.4khz audio frequency put into operation.                           |                                      |
| 3.8 | VIBRATION MODE                  | Rated input:2.0V. Max input:2.53V<br>Resonance frequency (F <sub>0</sub> ): 180Hz@ 1.0V. (Mounted with dummy set mass 100g) |                                      |

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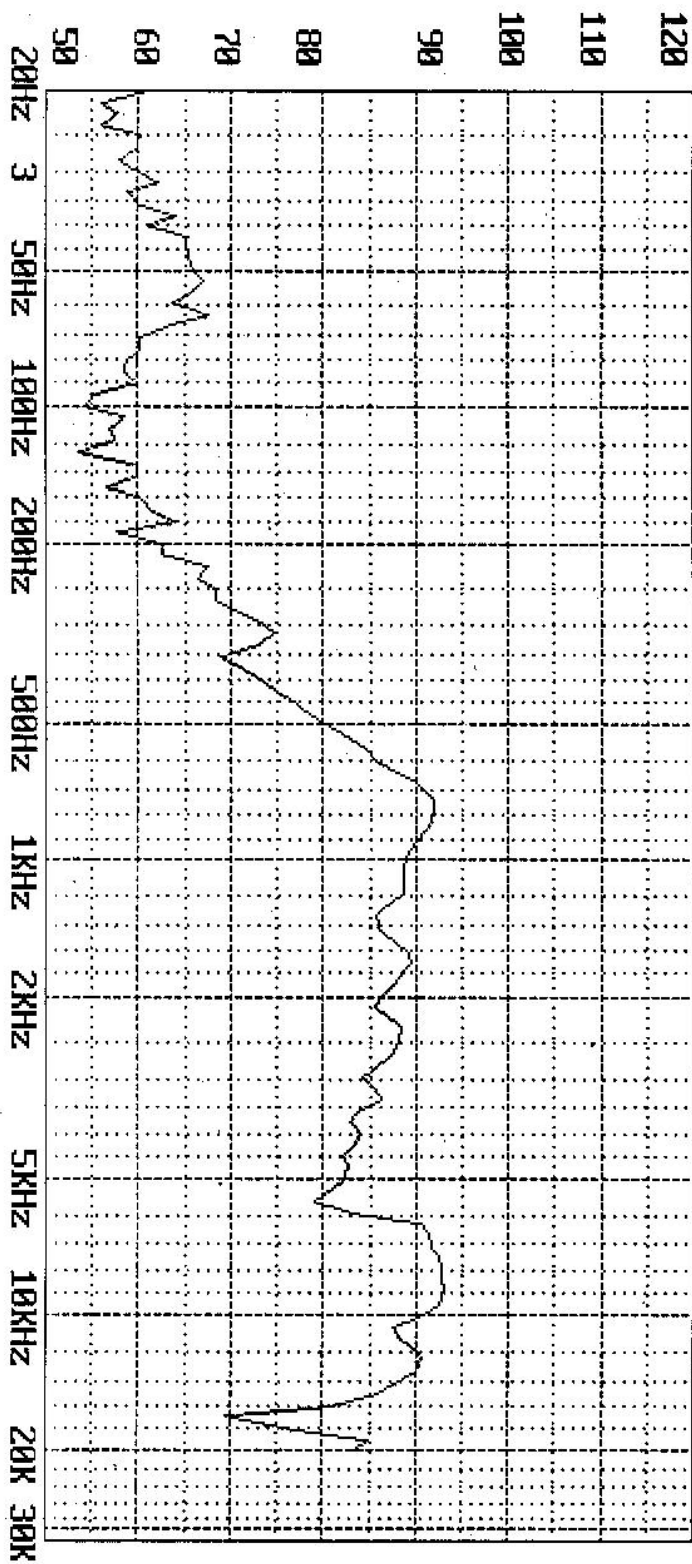
## 产品规格内容

Firm:GSM      Model:G-18P08-06-7G2      DATE:07-24-2007      TIME:10:50:49  
1000Hz Sens. = 89.0dBSPL Fail      F.R.: Pass      DCR: 0.48R Pass  
Average SPL: 87.0dBSPL Pass      (1000:1200:1500: 2000Hz) Sweep Speed: 1/12 Oct.

dBSPL

Frequency Response curve

B 6.17



Voltage applied for F.R. = 0.890V      Start F. = 20Hz      Stop F. = 20000Hz  
Measuring Distance = 0.10M

Mfg.:

Measured using Sunlight 1600; Fax:886-2-22230727

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## 产品规格内容

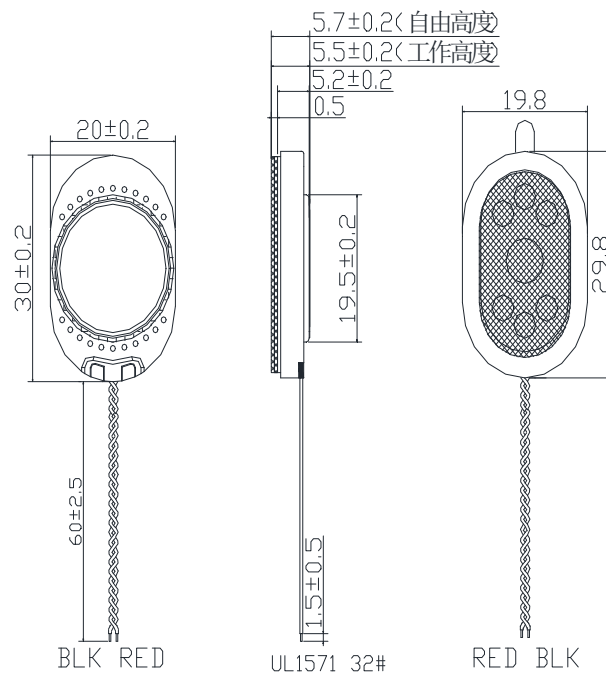
### 4.Environmental characteristics.

| NO.  | ANALYSIS ITEMS               | CONDITIONS                                                                                                                                             |  |
|------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 4.1  | OPERATING TEMPERATURE RANGE  | -20℃--60℃                                                                                                                                              |  |
| 4.2  | STORAGE TEMPERATURE RANGE    | -30℃--70℃                                                                                                                                              |  |
| 4.3  | APPEARANCE                   | Should not exist any obstacle to be harmful to normal operation: damages, cracks, rusts, and distortions, etc.                                         |  |
| 4.4  | RESULTS OF AFTER TEST        | Sensitivity difference shall be within (3db) and should satisfy the listed item 3.2,3.6,3.7 .after each following test.                                |  |
| 4.5  | TERMINAL STRENGTH            | Capable of withstanding (0.5kg) load for (30 sec) without resulting in any damage or rejection.                                                        |  |
| 4.6  | LOAD TEST                    | Shall be normal after tested, input<br>2.60V 0.8W White noise (EIA filter)96 Hrs.                                                                      |  |
| 4.7  | HIGH TEMPERATURE DURABILITY  | 60℃±3℃ (48 Hrs) and keep (6 Hrs) in a room                                                                                                             |  |
| 4.8  | COLD TEMPERATURE DURABILITY  | -20℃±3℃ (48 Hrs) and keep (6 Hrs) in a room                                                                                                            |  |
| 4.9  | HUMIDITY DURABILITY          | Temperature: +40 ±2℃ relative humidity: 92.5-95% RH<br>(48 Hrs) and keep (6 Hrs) in a room.                                                            |  |
| 4.10 | TEMPERATURE CYCLE DURABILITY | Low temperature -30±2℃ (2Hr). High temperature +70 ±2℃ (1Hr): 1 cycle: total 24 cycles and then keep(6Hr) in a room.                                   |  |
| 4.11 | VIBRATION DURABILITY         | Vibration duration: X Y Z axis, frequency range :10—55Hz,<br>Sweep ratio:10-55-10HZ/one Minute,<br>Vibration amplitude:1.5mm,Endurance:2 Hr each plan. |  |
| 4.12 | DROP TEST                    | Time :3 times (corner, side, plain)<br>Height: from 75cm on the concrete floor                                                                         |  |

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## 产品规格内容

### 5. Product Outside View



### 6. PACKING DETAILED DATA

