

SPECIFICATION

FOR APPROVAL

Description : Dynamic Speaker

ICC/Intervox Model No.: SB23X57R5-WCA

| ISSUE | CHECK | APPROVAL | CUSTOMER |
|---------------------|--------------------------|------------------------|----------|
| Wu Ting 06/24/10 | Tan Qianfeng 06/24/10 | Tang Helin 06/24/10 | |



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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

| | Item | Specifications |
|------|---------------------------|---|
| 1-1 | Dimension | 57.5×23×14.85 |
| 1-2 | Rated Input Power | 1.0W |
| 1-3 | Max Input Power | 2.0W |
| 1-4 | Rated Impedance | 8±15% Ω /1KHz/1V |
| 1-5 | Resonance Frequency(f0) | 700±20% Hz/1V |
| 1-6 | Sound Pressure Level | 98±3 dB at (AVG 0.8,1.0,1.2,1.5)KHz 1W/0.1m baffleboard (IEC) |
| 1-7 | Frequency Range | f0HZ ~ 20KHz |
| 1-8 | Total Harmonic Distortion | 10%MAX. at 1KHz, 1W |
| 1-9 | Flux Density | 0.6T |
| 1-10 | Polarity | When a positive DC Current is applied to the voice coil terminal marked +or red ,the diaphragm shall move forward |
| 1-11 | Operation Test | Must be normal at sine wave and program source1W. |
| 1-12 | Buzz, Rattle, etc. | Should not be audible at2.83V sine wave between (f0 Hz ~ 20000Hz) |
| 1-13 | Weight | 28±2g |
| 1-14 | Voice Coil Diameter | φ 11.75mm |
| 1-15 | Magnet (NdFeB) | φ 11×2t mm |
| 1-16 | Appearance | Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc. |

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2.ENVIRONMENTAL TEST

| | Item | Specifications |
|-----|------------------------|---|
| 2-1 | High temp. Test | Keep 96 hours at $+60^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check |
| 2-2 | Low temp. Test | Keep 96 hours at $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check |
| 2-3 | Humidity test | Keep 96 hours at $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 95% and leave 3 hours in normal temperature and then checked. |
| 2-4 | Thermal cycle test. | Low temperature: $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$, temperature: $+60^{\circ}\text{C} \pm 3^{\circ}\text{C}$, cycle: 1 hour/cycle each, and then keep 5 cycles in a room. |
| 2-5 | Vibration | 10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours. |
| 2-6 | Drop test | Free drop a unit from 100cm height to a board of 20mm thick x,y, z 6 direction. 1 times each, total 6 times. |
| 2-7 | Load test | Rated Power white noise is applied for 96 hours |
| 2-8 | Max Power test | Max power 1 min on – 2 min off 10 cycles. |
| 2-9 | Terminal strength test | Capable of withstand 1kg load for 15seconds without resulting in any damage or rejection. |

PASS CRITERION :

After these test , the change of S.P.L shall be within ± 3 dB .

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3.MEASURING METHOD

3-1 .Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

JUDGEMENT

Temperature : 20 ± 3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-2 . Standard Test Fixture

1.Input Power : 1.0W(2.83V)

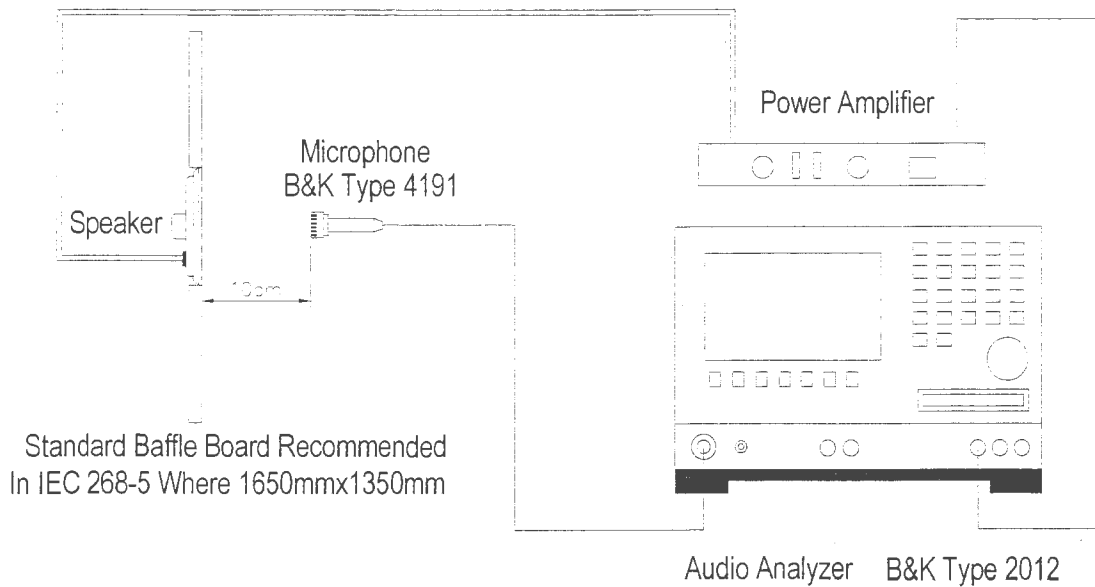
2.Zero Level : -dB

3.Mode : TSR

4.potentiometer Range : 50dB

5.Sweep Time : 0.5sec

Standard test condition of speaker



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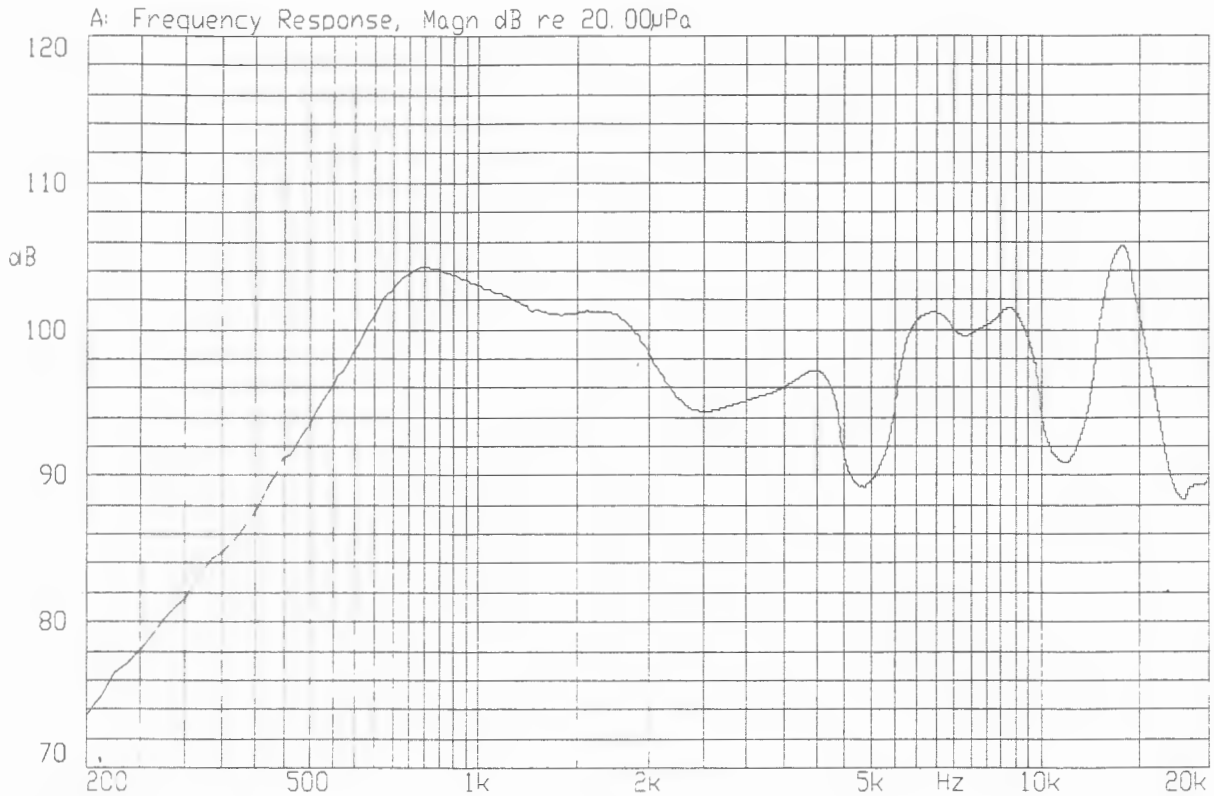
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4.FREQUENCY RESPONSE CURVE

1W 0.1m 2.83V



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Mode: TSR



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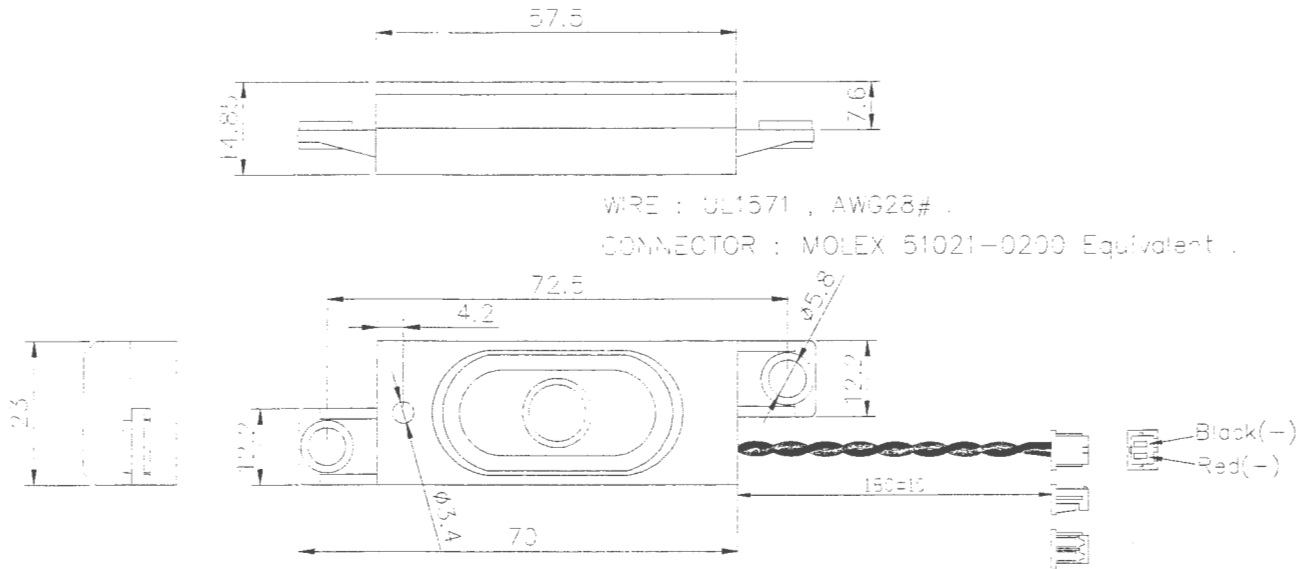
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5.DIMENSIONS

Unless otherwise specified, tolerance: ± 0.5 (unit: mm)



| | | | | |
|----------|-------------|------|-------------------|--------|
| 11 | Back Cover | 1 | Black ABS | |
| 10 | Front Cover | 1 | Black ABS | |
| 9 | Terminal | 1 | 51021-0200 | |
| 8 | Dust cap | 1 | Paper | |
| 7 | Damper | 1 | Cloth | |
| 6 | Cloth cone | 1 | Cloth | |
| 5 | Voice coil | 1 | Self bonding wire | |
| 4 | Plate | 1 | SPCC | |
| 3 | Yoke | 1 | SPCC | |
| 2 | Magnet | 1 | NdFeB | |
| 1 | Frame | 1 | Black ABS | |
| PART NO. | PART NAME | Q'TY | MATERIAL | REMARK |

| | | | | | |
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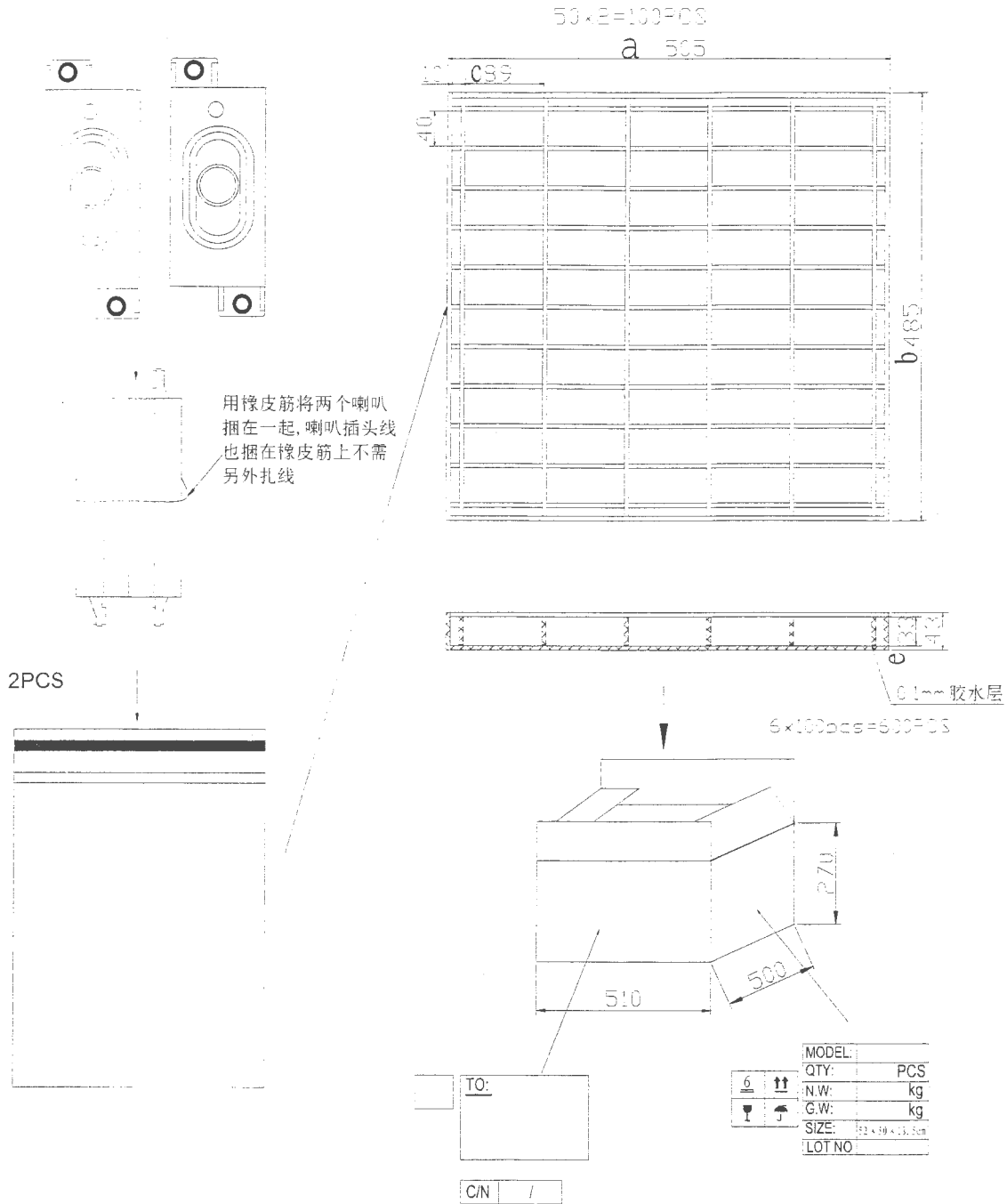
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6.PACKING



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