

SPECIFICATION

SHEET FOR APPROVAL

Customer:

Nomenclature:

1511 SPEAKER

Item No.:

Your Part No.:

Our Part No.:

KBE1511ST3.0H-1

Version:

V1.0

Date:

2024.03.22

| CUSTOMER 客户 | APPROVER 审批 | CHECKER 制作 |
|----------------|----------------|---------------|
| | | 何先朋 |



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|  深圳市凯博尔电子科技有限公司 | SPECIFICATIONS | | ITEM NO. | 1/7 |
| | MODEL NO. | KBE1511ST3.0H-1 | SPEC. No | 24032201 |

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|---|-----------------------------------|---|
| 1 | 产品概要/PRODUCT OUTLINE | |
| | 1-1 适用范围/SCOPE | This specification is applied to mobile telephone |
| | 1-2 尺寸/DIMENSIONS | As shown in fig (3) |
| | 1-3 大小/SIZE | (L) 15.0× (W) 11.0× (H) 3.0(±0.2 mm) |
| | 1-4 重量/NET WEIGHT | APPROX. 1.55g |
| 2 | 标准试验状态 Standard Test Condition | 一般规格试验状态（特殊要求除外） 常温 15～35℃，常湿 45%～85%，气压 860～1060hPa 但判定上有疑问时，试验状态为： 温度 20±2℃，相对湿度 60%～70%，气压 860～1060hPa |
| | | The test conditions unless otherwise specified should be Normal temperature 15 to 35℃,Normal humidity 45 to 85% And normal atmospheric pressure 860 to 1060hPa However,if there arises a doubt in judgement,the test conditions shall be as follows: Temperature 20±2℃ Humidity 60%～70% Atmosphere 860～1060hPa |

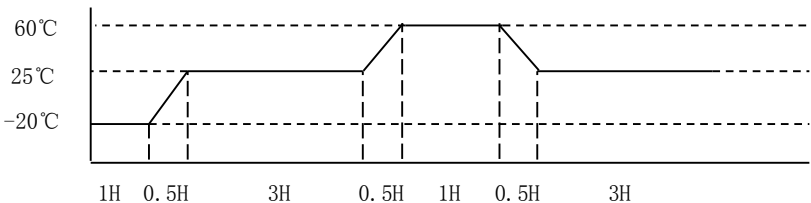
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| PREPARED | CHECKED | APPROVED |
| <i>He</i> | <i>Huang</i> | <i>Wang</i> |

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| | MODEL NO. | KBE1511ST3.0H-1 | SPEC. No | 24032201 |

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| 3 | 电气规格/ELECTRICAL SPECIFICATIONS | | |
| | 3-1 输出音压位准 SOUND PRESSURE LEVEL | 82 ± 3dB SPL /0.89Vrms/10cm at (AVG 0.8, 1.0K, 1.2K 1.5KHZ) | |
| | 3-2 阻抗 IMPEDANCE | 8±15%Ω(at 2.3KHz 1V) | |
| | 3-3 频宽回应 FREQUENCY RESPONSE | As shown in fig(2) | |
| | 3-4 额定输入功率 Rate Input Power | 0.7W In 1cc Box | |
| | 3-5 最大输入功率 Max Input Power | 1.0W In 1cc Box | |
| | 3-6 异常音测试 Buzzes & Rattles | Must be free audible noise (In 1cc Box) (From 300 Hz to 3.4KHz frequency range, Input:2.37V) | |
| | 3-7 最低共振频率 LOWEST RESONANCE FREQUENCY | 875±20% Hz | |
| | 3-8 有效频宽 FREQUENCY RANGE | F0~20KHz | |
| | 3-9 失真 TOTAL HARMONIC DISTORTION | 10%MAX. at 0.89Vrms/10cm | |
| | 3-10 工作温度 OPERATING TEMPERATURE | -20℃to +60℃ | |
| | 3-11 贮存温度 STORE TEMPERATURE | -30℃to +70℃ | |

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| | MODEL NO. | KBE1511ST3.0H-1 | SPEC. No | 24032201 |

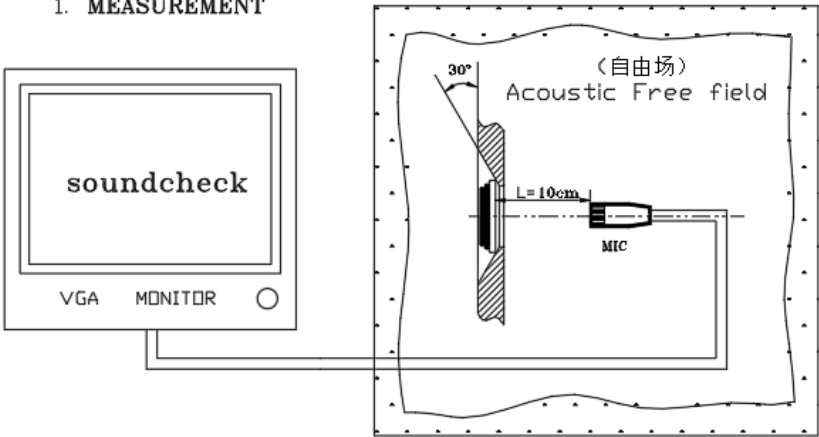
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| 4 | 信赖性试验/RELIABLE TEST | |
| | 4-1 概述 GENERAL | After any following tests the response at 1 K Hz shall not deviate more than 3 dB from the initial value |
| | 4-2 负载试验 LOAD TEST | 输入电压 / Input Power : 2.37V 输入信号 / Input Signal : white noise (In lcc Box) 时 间 / Duration : 96 hours 试验后放置时间 / Duration of Recovery : 4hrs of conditions at 20℃ |
| | 4-3 湿度试验 HUMIDITY TEST | 温 度 / Temperature : +40℃±3℃ 相对湿度 / Relative Humidity : 90%~95% R. H. 时 间 / Duration : 96 hours 试验后放置时间 / Duration of Recovery : 4hrs of conditions at 20℃ |
| | 4-4 低温试验 LOW TEMPERATURE TEST | 温 度 / Temperature : -20℃±3℃ 时 间 / Duration : 96 hours 试验后放置时间 / Duration of Recovery : 4hrs of conditions at 20℃ |
| | 4-5 高温试验 HIGH TEMPERATURE TEST | 温 度 / Temperature : +60℃±3℃ 时 间 / Duration : 96 hours 试验后放置时间 / Duration of Recovery : 4hrs of conditions at 20℃ |
| | 4-6 温度循环试验 TEMPERATURE CYCLES TEST | TEMPERTURE:  循环次数 / Cycles : 10 Cycles 试验后放置时间 / Duration of Recovery : 4hrs of conditions at 20℃ |
| | 4-7 落地试验 TEST DROP TEST | 落下方向 / Direction : 1 corner, 3 sides, 6 faces 落下回数 / Times : Once in each directions 高 度 / Height : From 0.7m(on the concrete) 试验后放置时间 / Duration of Recovery : 4hours of conditions at 20℃ 依包装实体一角三棱六面作自由落体试验后, 实体外观需正常 |
| | 4-8 振动试验 VIBRATION TEST | 振 动 / Vibration : 10-55Hz (In lcc Box) 振 幅 / Amplitude : 1.5mm 时 间 / Times : 1 hour in each of 3axes 试验后放置时间 / Duration of Recovery : 4hrs of conditions at 20℃ |

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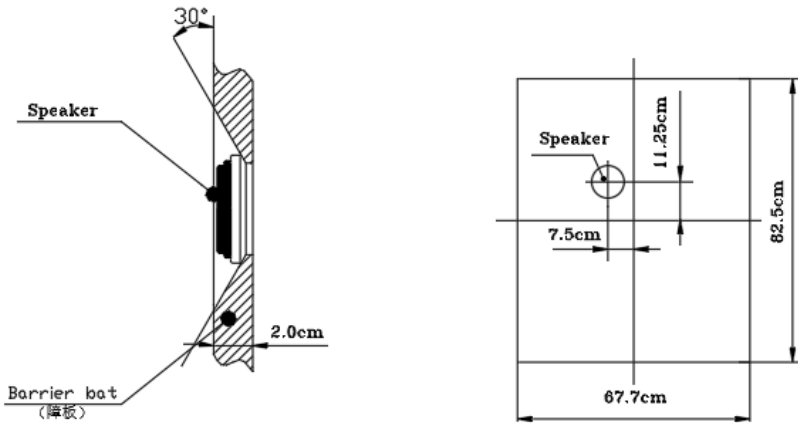
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ELECTRICAL AND ACOUSTICAL MEASURING CONDITION (fig.1)

1. MEASUREMENT

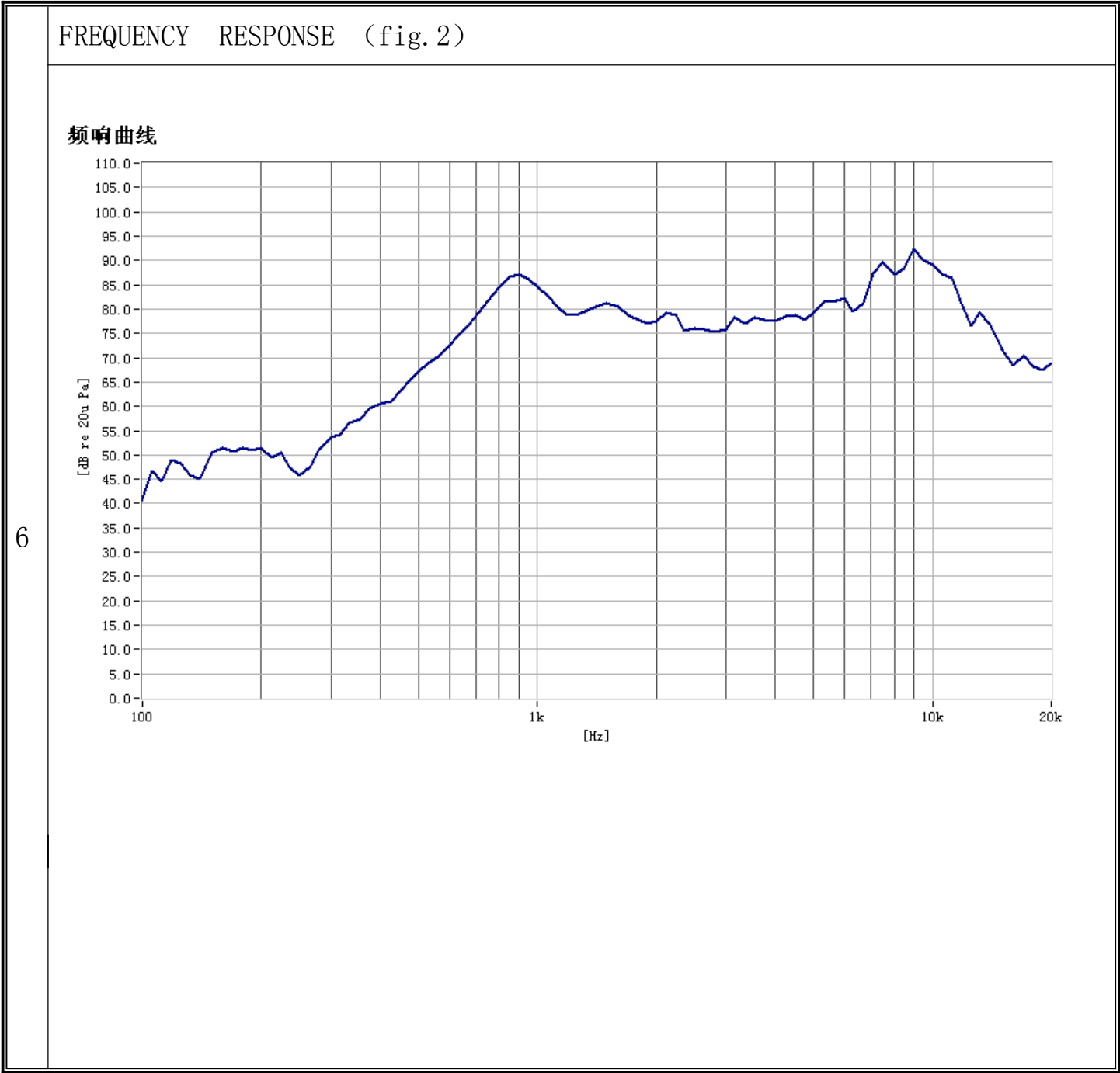


2.Measurement Board(IEC-268-5)



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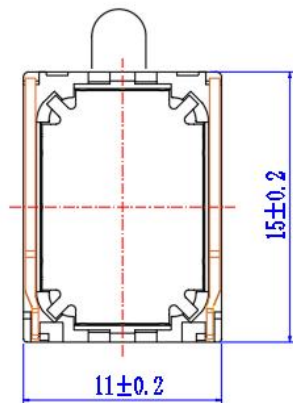
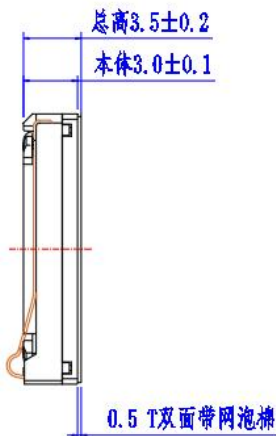
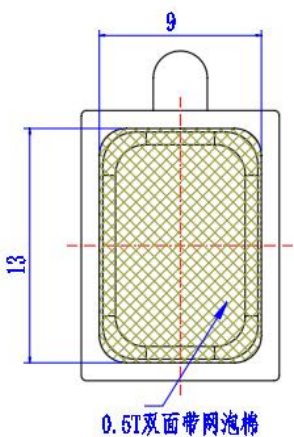


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DIMENSIONS (fig. 3)

Unless otherwise specified, tolerance: (unit: mm)

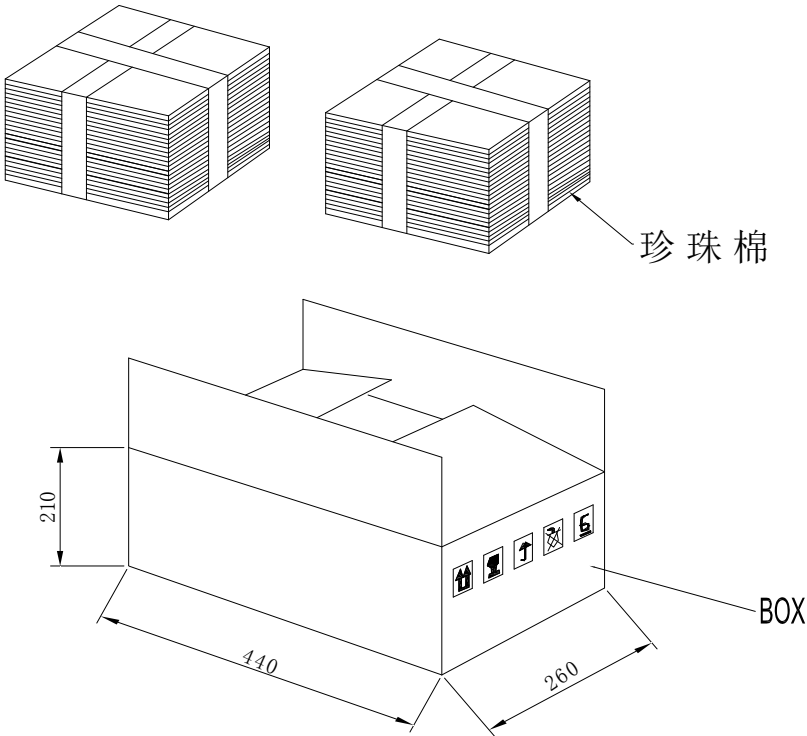


Bill of Material

| 8 | Cover | PC | 1 | ROHS |
|------|----------------|---------|-----|--------|
| 7 | Polarity Plate | Fe | 1 | ROHS |
| 6 | Magnet | Nd-Fe-B | 1 | ROHS |
| 5 | PIN | Cu+Au | 1 | ROHS |
| 4 | Voice coil | CU | 1 | ROHS |
| 3 | Yoke | Fe | 1 | ROHS |
| 2 | Cone | peek | 1 | ROHS |
| 1 | Frame | PBT | 1 | ROHS |
| ITEM | DESCRIPTIONS | REMARK | QTY | REMARK |

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| PRODUCT PACKAGE (fig. 4) | |
|  <p>UNIT:MM</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. 100 PCS PER TRAY PE PAN. 2. 2000 PCS PER CARTONS. 3. 2 CARTONS PER BOX. 4. 2000 PCS PER BOX. | |

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