

SPECIFICATION FOR APPROVAL

产品规格承认书

JC-SPK3411-PF01-4R1P5W

11×34×3.8 mm Rectangular Dynamic Speaker / 11×34×3.8 mm 矩形动圈扬声器

Item 项目	Information 信息
Customer 客户	
Customer P/N 客户料号	
Supplier 供应商	常州市嘉传电子有限公司 Changzhou Jiachuan Electronics Co., Ltd.
Jiachuan P/N 嘉传型号	JC-SPK3411-PF01-4R1P5W
Description 产品名称	11×34×3.8 mm 矩形动圈扬声器 / Rectangular Dynamic Speaker
Main Specification 主要规格	11×34×3.8 mm / 4.2Ω±20% / Rated 1.5W / Max. 2W / SPL 96±3dB
Issue Date 发行日期	2026-10-01
Revision 版本	A0

Approval / 签核

Prepared 制作	Checked 审核	Approved 批准	Company Seal 公司印章
李明珠	王敏娜	黄继桥	

Customer Confirmation / 客户确认

Customer Approval 客户承认	Date 日期

产品规格内容 (SPECIFICATION)

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1. 使用范围 / Scope

本规格书适用于 11×34×3.8 mm 矩形动圈扬声器。 / This specification applies to the 11×34×3.8 mm rectangular dynamic speaker.

2. 基本参数 / General Information

Item / 项目	Specification / 规格
Dimension / 外形尺寸	11×34×3.8t mm
Frame + Terminal / 框架+端子	PPA + SUS
Diaphragm / 振膜	PEEK
Voice Coil / 音圈	Copper Wire / 铜线
Yoke / 磁轭	SPCC
Plate / 华司	SPCC
Magnet / 磁铁	NdFeB
Weight / 重量	5±0.5 g
Operating Temperature / 工作温度	-20°C to +70°C
Storage Temperature / 储存温度	-40°C to +85°C

3. 电气与声学性能 / Electrical & Acoustic Specifications

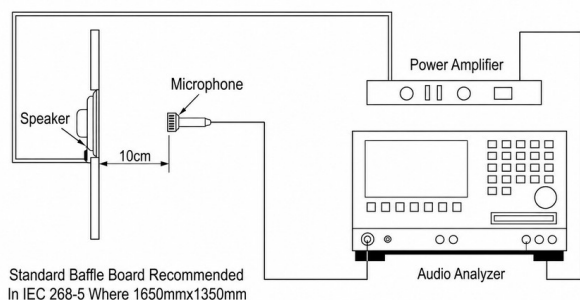
Item / 项目	Specification / 规格	Condition / 条件
Rated Impedance / 额定阻抗	4.2Ω ±20%	2.0 kHz, 2.45 Vrms
Coil Resistance / 直流电阻	4Ω ±20%	—
Rated Input Power / 额定功率	1.5 W	In 3cc box
Maximum Input Power / 最大功率	2 W	In 3cc box
Resonance Frequency (F0) / 最低共振频率	750 Hz ±20%	2.45 Vrms / 10 cm, in 3cc box
Sound Pressure Level / 输出声压	96 ±3 dB SPL	2.45 Vrms / 10 cm at 2 kHz, in 3cc box
Frequency Range / 有效频宽	F0 to 20 kHz	—
THD / 总谐波失真	≤10%	1 kHz, 2.45 Vrms / 10 cm, in 3cc box
Operation Test / 工作试验	Must be normal	Sine wave and program source 1.5 W, in 3cc box
Buzz & Rattle / 异常音	No audible buzz or rattle	200 Hz to 2 kHz, up to 2.45 Vrms, in 3cc box
Polarity / 极性	Diaphragm moves forward	Positive DC to terminal marked + or red
Appearance / 外观	No harmful damage, crack, rust or distortion	Visual inspection

4. 环境与可靠性试验 / Environmental & Reliability Tests

Item / 项目	Test Condition / 试验条件	Acceptance / 判定
High Temperature Test / 高温试验	+85°C ±3°C, 96 h	After test, SPL change within ±3 dB
Low Temperature Test / 低温试验	-40°C ±3°C, 96 h	After test, SPL change within ±3 dB
Humidity Test / 恒温恒湿试验	+40°C ±3°C, RH 90%–95%, 96 h; recovery 6 h	After test, SPL change within ±3 dB
Thermal Cycle Test / 温度循环	-40°C ±3°C ↔ +85°C ±3°C; 1 h/cycle each; 10 cycles	After test, SPL change within ±3 dB
Vibration / 振动	10–55–10 Hz sine sweep, 15 min, 5G; X/Y/Z, 2 h each, total 6 h	After test, SPL change within ±3 dB
Drop Test / 跌落	Mounted in 100 g fixture; 1.5 m; total 20 drops as specified in source	After test, SPL change within ±3 dB
Load Test / 负荷	1.5 W white noise, 96 h, in 3cc box	After test, SPL change within ±3 dB
Terminal Strength / 端子强度	1.0 kg load, 15 s	Shall be normal

5. 测量方式 / Measurement Method

Standard test condition of speaker



Test Conditions / 测试条件

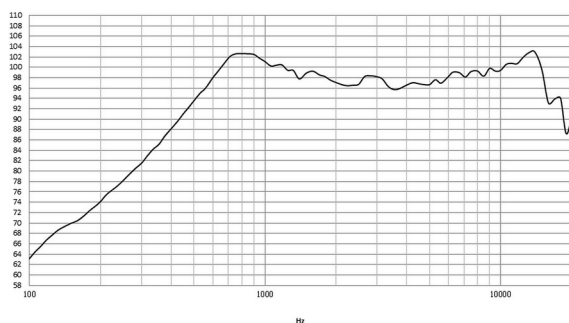
Standard temperature: 15–35°C
Relative humidity: 25%–75% RH
Atmospheric pressure: 860–1060 mbar
Judgement temperature: 20±3°C
Judgement RH: 60%–70% RH
Input: 2.45 Vrms
Mode: TSR
Potentiometer range: 50 dB
Sweep time: 0.5 s

说明：测量示意图仅供参考，具体测试条件见右侧说明。 / The measurement diagram is for reference only. Detailed test conditions are shown on the right.

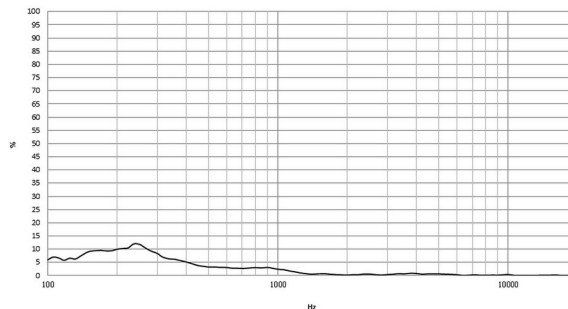
6. 技术曲线 / Response Curves

Curve Test Condition / 曲线测试条件：2.45 Vrms / 10 cm / in 3cc BOX. The following curves are presented under the above test conditions. / 以下曲线基于上述测试条件展示。

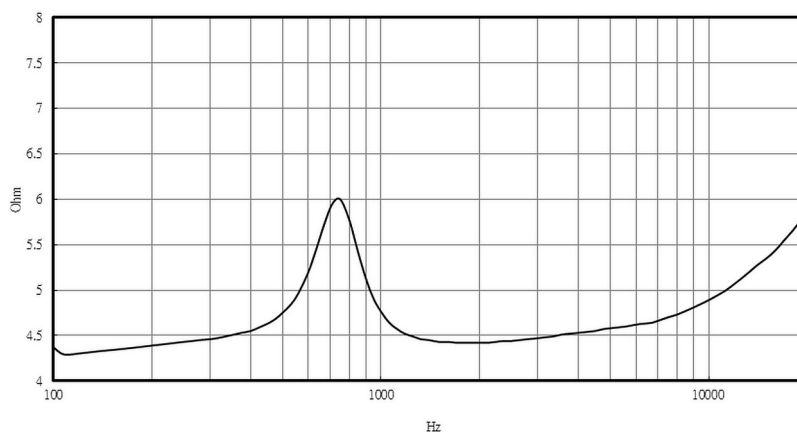
6-1. Frequency Response / 频率响应



6-2. Distortion / 失真

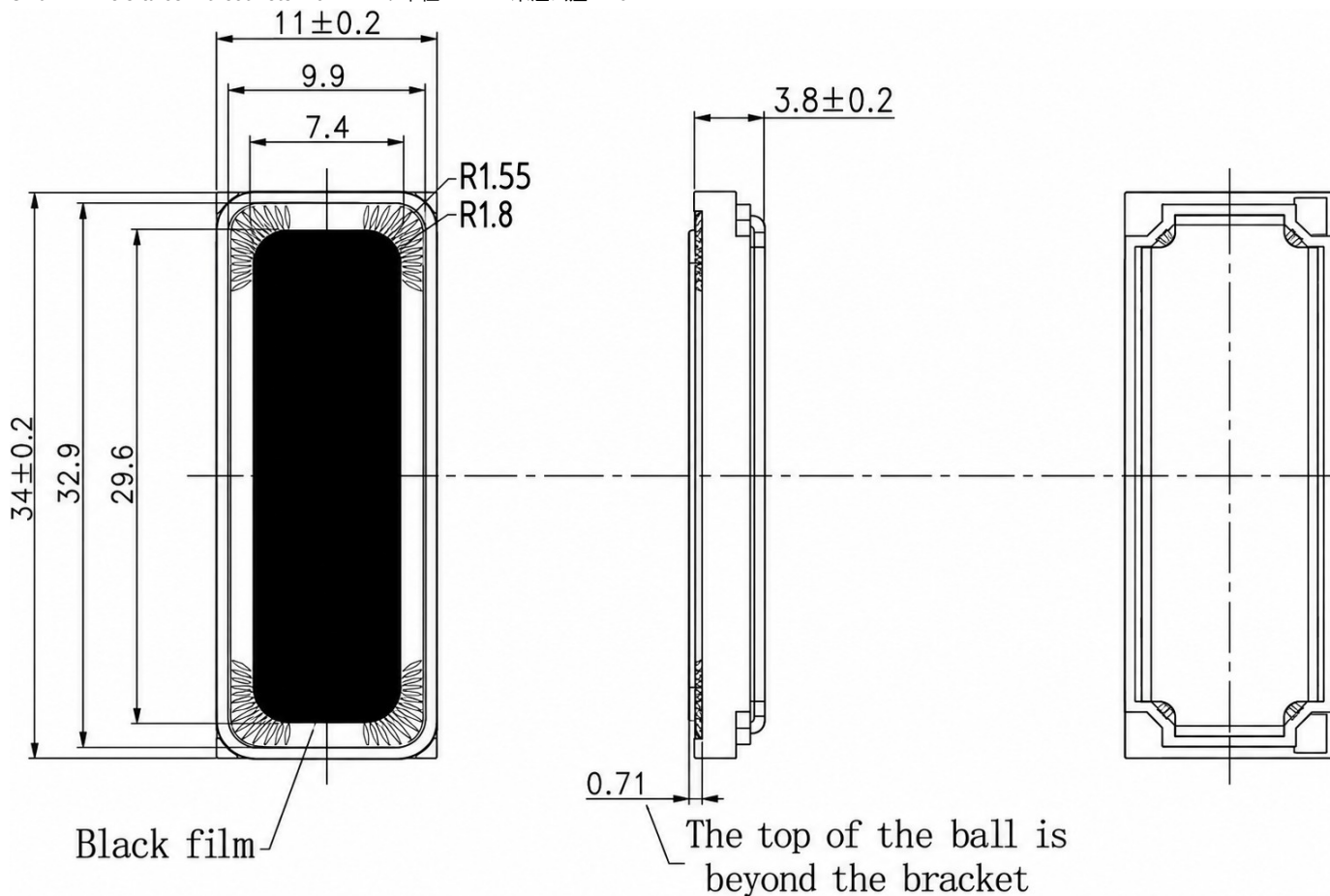


6-3. Impedance Response / 阻抗响应



7. 外形尺寸图 / Product Outside View

Unit: mm. Tolerance without note: ± 0.2 mm. / 单位: mm, 未注公差: ± 0.2 mm。



Key dimensions / 关键尺寸: 11 ± 0.2 mm $\times$ 34 ± 0.2 mm; overall thickness 3.8 ± 0.2 mm; additional dimensions are shown in the mechanical drawing above. / 其他尺寸详见上方机械图。

8. 材料 / Materials

No.	Part / 部件	Qty.	Material / 材料	Remark
1	Frame + terminal / 框架+端子	1	PPA + SUS	GU-001
2	Yoke / 磁轭	1	SPCC	GU-001
3	Diaphragm / 振膜	1	PEEK	GU-001
4	Voice coil / 音圈	1	Copper Wire	GU-001
5	Plate / 华司	1	SPCC	GU-001
6	Magnet / 磁铁	1	NdFeB	GU-001

9. 包装方式 / Packing

Packing / 包装	按客户要求包装 / Packaging according to customer requirements.
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