

SPECIFICATION FOR APPROVAL

产品规格承认书

JC-SPK1813-PF01-8R1W-PN 18×13×4.5 mm Rectangular Dynamic Speaker / 18×13×4.5 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-SPK1813-PF01-8R1W-PN
Description 产品名称	18×13×4.5 mm 矩形动圈扬声器 / Rectangular Dynamic Speaker
Main Specification 主要规格	18×13×4.5 mm / 8Ω±15% / Rated 1.0W / Max. 1.2W / SPL 100±3dB
Issue Date 发行日期	2026-09-26
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

1. General Information & Test Conditions / 基本信息与测试条件

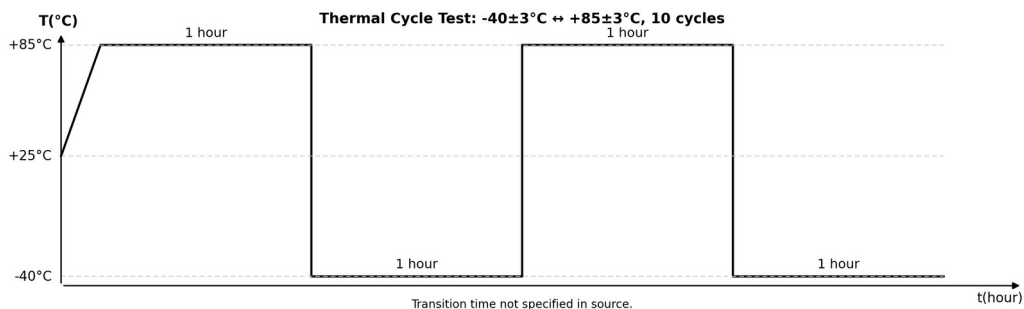
Item 项目	Specification 规格
Type / 类型	18×13×4.5 mm Rectangular Dynamic Speaker, Pin Type / 18×13×4.5 mm 矩形动圈扬声器（插针式）
Weight / 重量	2.8 g
Standard Test Temperature / 标准测试温度	15 ~ 35°C; judgement: 20±3°C
Relative Humidity / 相对湿度	45% ~ 85% RH; judgement: 60% ~ 70% RH
Atmospheric Pressure / 大气压力	860 ~ 1060 mbar
Operating Temperature / 工作温度	-20°C ~ +70°C
Storage Temperature / 存储温度	-40°C ~ +85°C

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

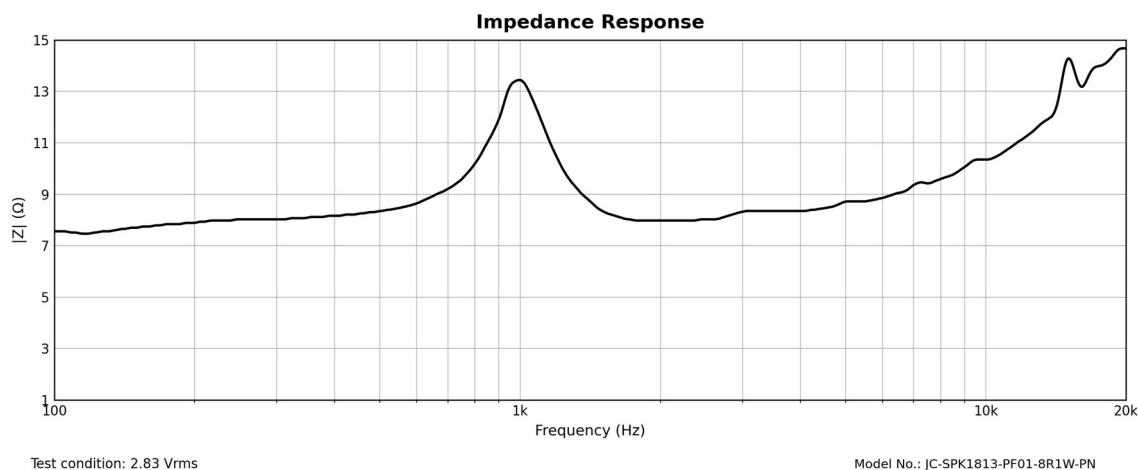
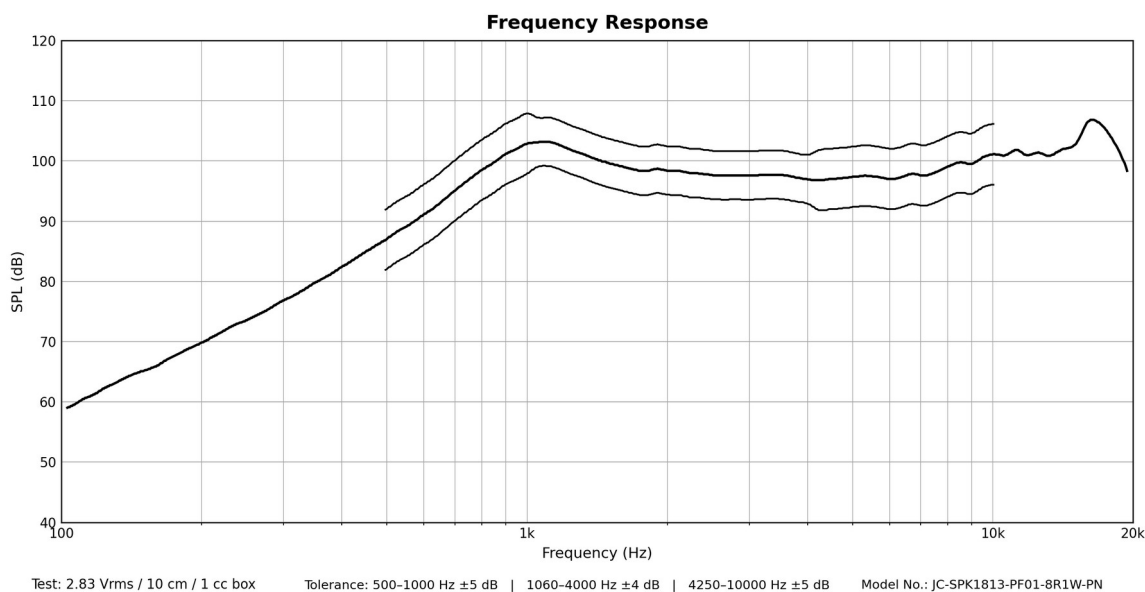
Item 项目	Specification 规格	Conditions 条件
Rated Impedance / 额定阻抗	8Ω ±15%	2.0 kHz, 2.83 Vrms, in 1 cc box
Rated Noise Power / 额定噪声功率	1.0 W	In 1 cc box
Maximum Short-Term Power / 最大短时功率	1.2 W	In 1 cc box
Resonance Frequency (F0) / 共振频率	500 Hz ±20%	Free air
Resonance Frequency (F0) / 共振频率	950 Hz ±20%	In 1 cc box
Sound Pressure Level / 声压级	100 ±3 dB SPL	2.83 Vrms / 10 cm; avg. 0.8, 1.0, 1.5, 2.0 kHz; in 1 cc box
Rated Frequency Range / 额定频率范围	F0 ~ 20 kHz	Source specification
THD / 总谐波失真	≤10%	Rated power / 2 kHz / 10 cm / 1 cc test fixture on baffle
Polarity / 极性	Positive DC → diaphragm moves forward	Positive current to terminal marked +
Buzz & Rattle / 异常音	No audible buzz or rattle	Up to 2.83 Vrms within rated frequency range; in 1 cc box

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

Item 项目	Specification / Condition 规格/条件	Acceptance Criteria 判定
High-Temperature Test / 高温试验	+85°C ±3°C, 96 h	After recovery, SPL change within ±3 dB; no abnormality
Low-Temperature Test / 低温试验	-40°C ±3°C, 96 h	After recovery, SPL change within ±3 dB; no abnormality
Humidity Test / 恒湿试验	+40°C ±3°C, 90%~95% RH, 96 h; recovery 6 h	After recovery, SPL change within ±3 dB; no abnormality
Thermal Cycle Test / 温度循环试验	-40°C ±3°C ↔ +85°C ±3°C; 1 h each; 10 cycles	After recovery, SPL change within ±3 dB; no abnormality
Vibration Test / 振动试验	10~55~10 Hz sine sweep, 15 min, 5G; X/Y/Z, 2 h each; total 6 h	After recovery, SPL change within ±3 dB; no abnormality
Drop Test / 跌落试验	Mounted in 100 g fixture; 1.5 m; 2 drops/side (2×6) + 2 drops/corner (2×4), total 20	After recovery, SPL change within ±3 dB; no abnormality
Load Test / 负载试验	1.0 W pink noise, 96 h; PN 100 Hz~10 kHz; crest factor 6 dB; 12 dB/oct	After recovery, SPL change within ±3 dB; no abnormality
Terminal Strength / 端子强度	1.0 kg load, 15 s	Shall be normal

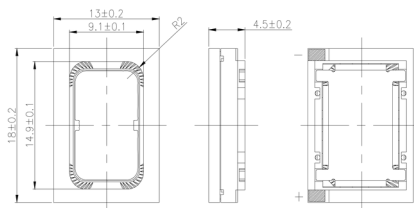


4. Frequency & Impedance Response Curves / 频率响应与阻抗曲线



5. Dimensional Drawing & Materials / 外形尺寸与材料

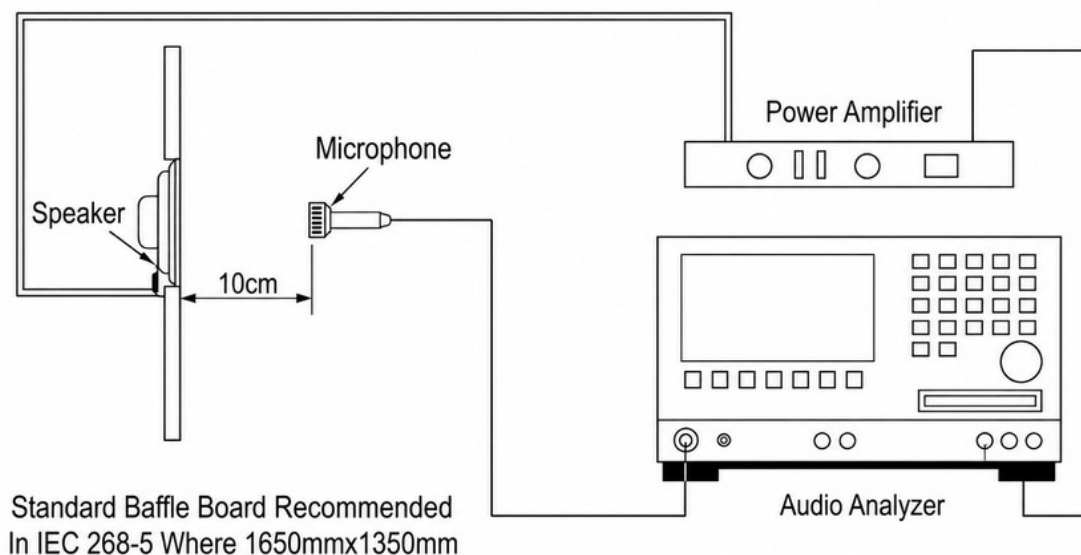
Materials / 材料清单



No.	Part Name / 材料名称	Material / Spec. 材质/规格	Qty 数量
1	Frame / 支架	PPA	1
2	Yoke / 轭铁	SPCC	1
3	Diaphragm / 振膜	PEEK	1
4	Voice Coil / 音圈	Copper Wire / 铜线	1
5	Plate / 华司	SPCC	1
6	Magnet / 磁铁	NdFeB / 钕铁硼	1
7	Front Cover / 前盖	PPA	1
8	Pin / 插针	SUS / 不锈钢	2

6. Measuring Method / 测量方式

Standard test condition of speaker



7. Packing Requirement / 包装方式

Packing / 包装

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