

SPECIFICATION FOR APPROVAL

产品规格承认书

JC-SPK1511-MF02-8R0P7W-SC

11×15 弹针式微型扬声器 / Spring Contact Mini Speaker

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-SPK1511-MF02-8R0P7W-SC
Description / 产品名称	11×15 弹针式微型扬声器 / Spring Contact Mini Speaker
Specification / 产品规格	11×15×3.0mm / 8Ω / Rated 0.7W / Max. 1.0W
Issue Date / 发行日期	2026-10-02
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. 使用范围 / Scope

本规格书适用于 11×15 mm 弹针式微型动态扬声器。 / This specification applies to the 11×15 mm spring-contact miniature dynamic speaker.

2. 电声特性 / Electro-acoustic Characteristics

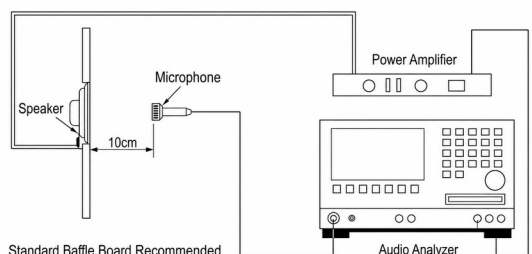
No.	Item / 项目	Specification / 规格	Condition / 条件
2.1	Dimension / 外形尺寸	11×15×3.0t	—
2.2	Rated Input Power / 额定功率	0.7W	—
2.3	Max. Input Power / 最大功率	1.0W	—
2.4	Rated Impedance / 额定阻抗	8Ω ±15%	2.0kHz / 2.0Vrms
2.5	DCR / 直流电阻	7.2Ω ±10%	—
2.6	F0 / 共振频率	700Hz ±20%	Free air, 1.0Vrms / 10cm
2.7	SPL / 输出音压	89±3dB	2.0Vrms / 10cm; Avg. 0.8/1.0/1.5/2.0kHz
2.8	THD / 总谐波失真	≤10%	1kHz, 2.0Vrms / 10cm
2.9	Frequency Range / 频率范围	F0~20kHz	—
2.10	Buzz & Rattle / 异常音	No audible buzz/rattle	200Hz~2.0kHz, up to 2.37Vrms
2.11	Weight / 重量	1.5g	—
2.12	Polarity / 极性	Positive → diaphragm moves forward	—

3. 可靠性测试 / Reliability Test

Item / 项目	Condition / 条件	Acceptance / 判定
High Temperature / 高温	+80±3°C, 96h	Normal
Low Temperature / 低温	-30±3°C, 96h	Normal
Humidity / 湿热	+40±3°C, 90~95%RH, 96h; recovery 6h	Normal
Thermal Cycle / 温循	-30±3°C ↔ +80±3°C, 12 cycles; 2h each extreme; recovery 2h	ΔSPL ≤ ±3dB
Vibration / 振动	10~55~10Hz, 1.5mm; 2h/axis, 3 axes	Normal
Drop / 跌落	1.5m; 100g fixture; side/corner drops as specified	Normal
Load / 负载	0.7W Pink Noise, 96h	ΔSPL ≤ ±3dB
Terminal Strength / 端子强度	1.0kg load, 15s	Normal

4. 测量方式 / Measurement Method

Standard test condition of speaker



Standard Baffle Board Recommended
In IEC 268-5 Where 1650mmx1350mm

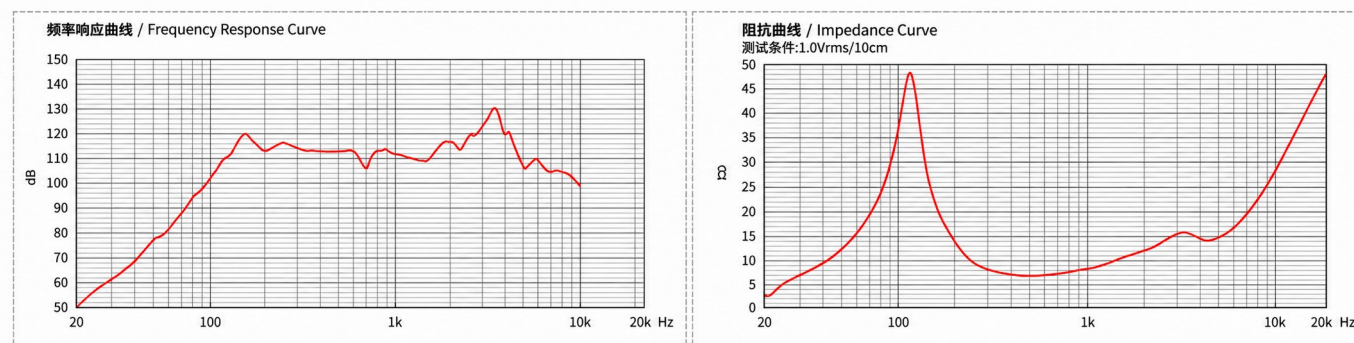
Test Conditions / 测试条件

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: 2.0Vrms
 Mode: TSR
 Potentiometer range: 50dB
 Sweep time: 0.5s

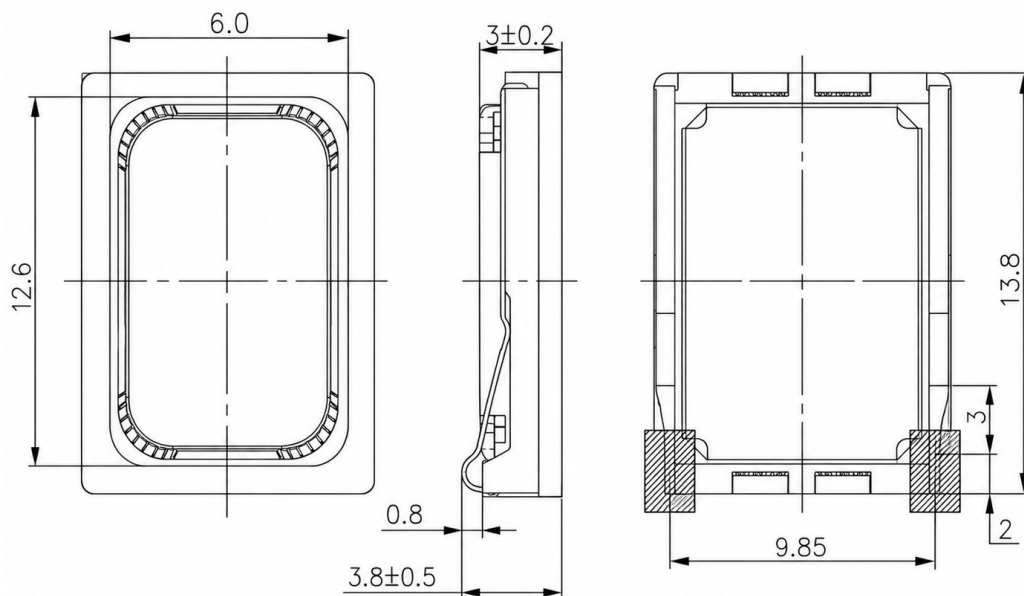
说明：测量示意图仅供参考，具体测试条件见右侧说明。 / The measurement diagram is for reference only. Detailed test conditions are shown on the right.

5. 技术曲线 / Response Curves

Curve Test Condition / 曲线测试条件：Frequency 2.0Vrms / 10cm; Impedance 1.0Vrms / 10cm.



6. 外形尺寸图 / Product Outside View



7. 材料 / Materials

No.	Part Name / 零件	Q'ty	Material / 材料
7	Front Cover / 前盖	1	PBT
6	Magnet / 磁铁	1	NdFeB
5	Plate / 华司	1	SPCC
4	Voice Coil / 音圈	1	Copper Wire
3	Diaphragm / 振膜	1	PEEK
2	Yoke / 磁轭	1	SPCC
1	Frame + Spring Terminal / 框架+弹针	1	PBT + SUS

8. 端子与包装 / Terminal & Packing

弹针端子结构按本规格执行；如项目有特殊端子要求，可另行确认。 / Spring-contact terminal structure follows this specification; project-specific terminal requirements can be confirmed separately.

包装方式：可按客户指定要求包装。 / Packaging can be arranged according to customer requirements.