SPECIFICATION FOR APPROVAL

产品规格承认书

JC-20T-04-8R1W Ø20×3.4 mm Round Dynamic Speaker / 20mm 圆形动圈扬声器

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-20T-04-8R1W
Description 产品名称	Ø20×3.4 mm 圆形动圈扬声器 / Round Dynamic Speaker
Main Specification 主要规格	Ø20×3.4 mm / 8Ω ±15% / Rated 1.0 W / Max. 1.2 W / SPL 85±3 dB
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

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

No.	Item 项目	Specification 规格	Condition / Notes 条件 / 备注
1-1	Dimension / 尺寸	Ø20 × H3.4 mm	Drawing tolerance as specified / 见尺寸图
1-2	Rated Input Power / 额定输入功率	1.0 W	
1-3	Max. Input Power / 最大输入功率	1.2 W	
1-4	Rated Impedance / 额定阻抗	8 Ω ±15%	2 kHz / 1 V
1-5	Resonance Frequency (F0) / 最低共振频率	980 Hz ±20%	1 V
1-6	Sound Pressure Level / 声压级	85 ±3 dB	AVG at 0.8/1.0/1.5/2.0 kHz; 0.1 W / 0.1 m; IEC baffle board
1-7	Frequency Range / 频率范围	F0 ~ 20 kHz	
1-8	Total Harmonic Distortion / 总谐波失真	10% max.	1 kHz, 1.0 W
1-9	Polarity / 极性	Diaphragm moves forward	Positive DC applied to terminal marked + or red
1-10	Operation Test / 动作试验	Normal operation	Sine wave and program source, 1.0 W
1-11	Buzz / Rattle / 异音	Not audible	2.83 V sine wave, F0 20 Hz ~ 3.5 kHz
1-12	Weight / 重量	2.0 ±0.3 g	
1-13	Voice Coil Diameter / 音圈尺寸	Ø8.5 × H1.3 mm	
1-14	Magnet / 磁钢	NdFeB Ø7.9 × 0.9 mm	
1-15	Appearance / 外观	No damage, cracks, rust, distortion or harmful obstacles	
1-16	Operating Temp. Range / 工作温度	-20℃ ~ +60℃	
1-17	Storage Temp. Range / 储存温度	-30℃ ~ +70℃	

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

No.	Item 项目	Test Condition / 试验条件
2-1	High Temperature Test / 高温试验	Keep 96 h at +60℃ ±3℃, then leave 3 h at normal temperature and check.
2-2	Low Temperature Test / 低温试验	Keep 96 h at -30℃ ±3℃, then leave 3 h at normal temperature and check.
2-3	Humidity Test / 湿热试验	Keep 96 h at +40℃ ±3℃, relative humidity 95%, then leave 3 h at normal temperature and check.
2-4	Thermal Cycle Test / 温度循环	Low: -30℃ ±3℃; High: +60℃ ±3℃; 1 h/cycle each; 5 cycles.
2-5	Vibration / 振动	10~55~10 Hz sine sweep, 15 min; 5 G constant; X/Y/Z, 2 h each, total 6 h.
2-6	Drop Test / 跌落试验	Free drop from 100 cm to 20 mm thick board; X/Y/Z 6 directions, 1 time each, total 6 times.
2-7	Load Test / 负载试验	Rated-power white noise for 96 h.
2-8	Max. Power Test / 最大功率试验	Max. power: 1 min ON / 2 min OFF, 10 cycles.
2-9	Terminal Strength / 端子强度	Withstand 1 kg load for 15 s without damage or rejection.
2-10	Waterproof Grade / 防水等级	Not specified in source / 原资料未填写

PASS CRITERION / 判定标准

After these tests, the change of S.P.L. shall be within ±3 dB. / 试验后声压级变化应在 ±3 dB 以内。

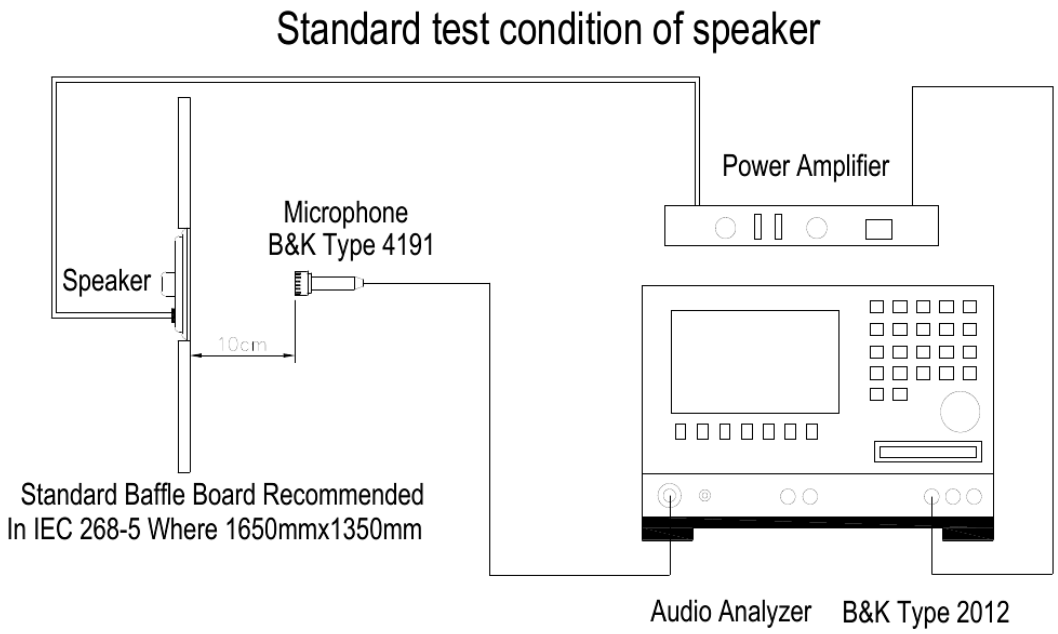
3. Measuring Method (Speaker Mode) / 测量方法

3.1 Test Condition / 测试条件

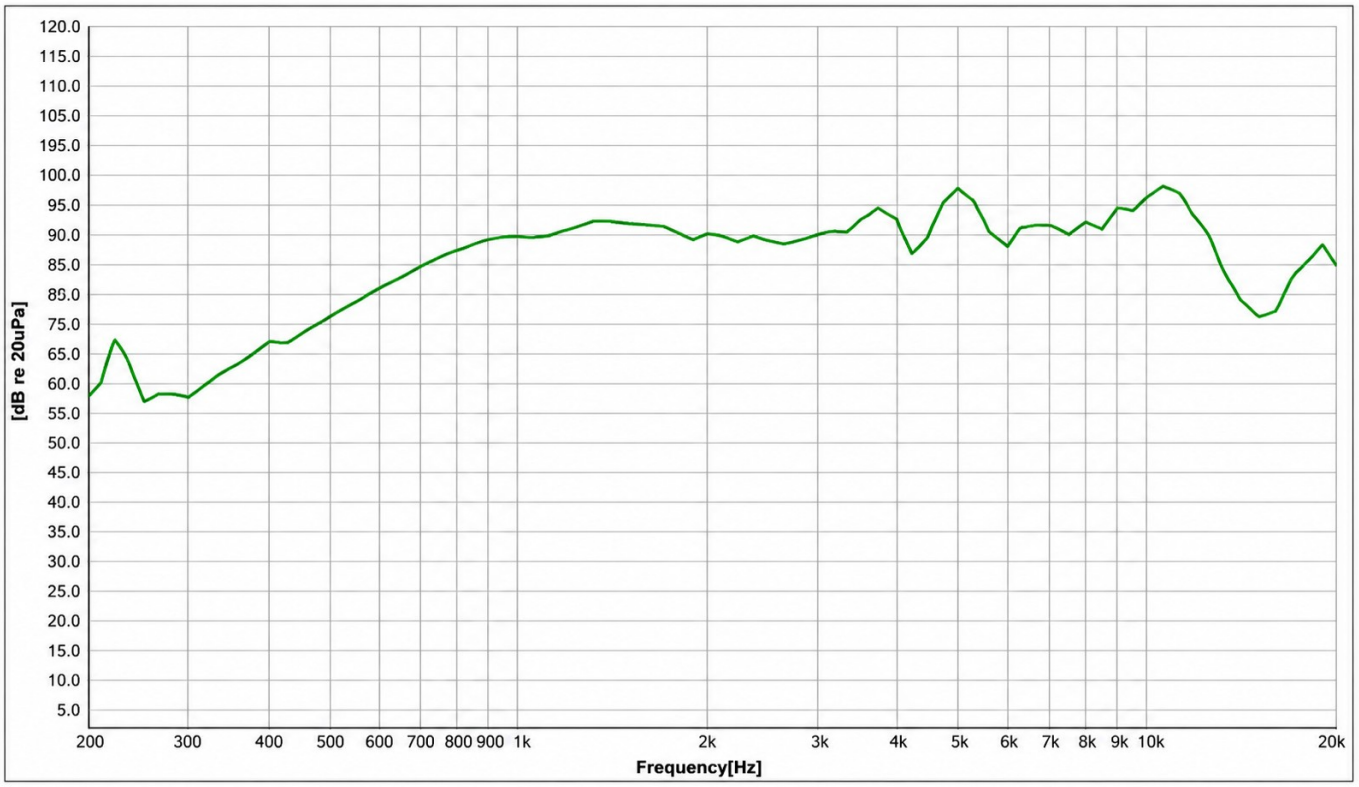
Item 项目	Standard 标准状态	Judgement 判定状态
Temperature / 温度	15 ~ 35℃	20 ±3℃
Humidity & Pressure / 湿度及气压	RH 45% ~ 85%; 860~1060 mbar	RH 60% ~ 70%; 860~1060 mbar

3.2 Standard Test Fixture / 标准测试治具

Input Power: 0.1 W (0.89 V) | Zero Level: -dB | Mode: TSR | Potentiometer Range: 50 dB | Sweep Time: 0.5 s



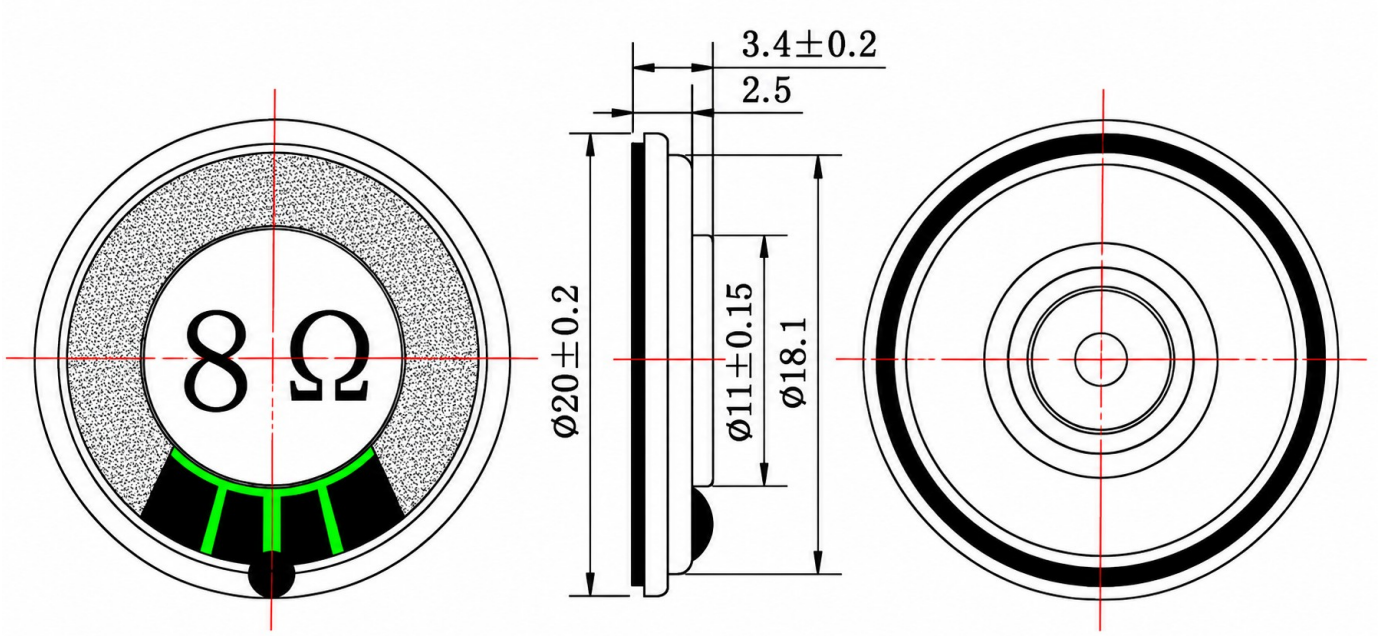
4. Frequency Response Curve / 频率响应曲线



Curve image extracted from the supplier source without changing the plotted response. / 曲线图取自原始资料，未修改曲线数据。

5. Dimensions & Materials / 外形尺寸与材料

Unless otherwise specified, tolerance: ±0.3 mm. / 未特别标注时，公差：±0.3 mm。



Part No.	Part Name / 名称	QTY	Material / 材料	Remark
7	Lead wire / 引线	2		RoHS
6	PCB	1	FR4	RoHS
5	Magnet / 磁钢	1	NdFeB	RoHS
4	Plate / 华司	1	SPCC	RoHS
3	Voice coil / 音圈	1	HTW-UF5	RoHS
2	Diaphragm / 振膜	1	PET	RoHS
1	Front cover / 前盖	1	ABS	RoHS

All materials shall comply with RoHS. / 所有材料应符合 RoHS 要求。

6. 包装方式 / Packing Requirement

Item / 项目	Specification / 规格	Remark / 备注
Packing / 包装	按客户要求包装 / Packaging according to customer requirements.	