Miniature Speaker 8ohm, 23mm dia. Encased speaker with PCB pins	Part No.	ABS-201-RC
	Page	1/5

1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Specifications
1-1	Dimension	Φ22.5×8.5t
1-2	Rated Input Power	0.08W
1-3	Max Input Power	0.15W
1-4	Rated Impedance	8±15% Ω /2KHz/1V
1-5	Resonance Frequency(f0)	1500±20% Hz/1V
1-6	Sound Pressure Level	≥73 dB at 1.0 KHz 0.1W/0.1m baffleboard (IEC)
1-7	Frequency Range	700HZ ~ 4KHz
1-8	Total Harmonic Distortion	10%MAX. at 2.4KHz, 0.08W
1-9	Flux Density	T
1-10	Polarity	When a positive DC Current is applied to the voice coil terminal marked +or red ,the diaphram shall move forward
1-11	OperationTest	Must be normal at sine wave and program source 0.08W.
1-12	Buzz,Rattle,etc.	Should not be audible at 0.8 V sine wave between (FO Hz ~ 4kHz)
1-13	Weight	5 g
1-14	Voice Coil Diameter	Φ7.2 mm
1-15	Magnet (NdFeB)	Φ6.5×1.5t mm
1-16	Appearance	Should not exist any obstacle to be harmful to normal operation;damages,cracks,rusts and distortions,etc.
1-17	Operating Temp. Range	-20℃ ～ +60℃
1-18	Storging Temp. Range	-20℃ ～ +60℃

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2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	High temp. Test	Keep 4 hours at +60℃±3℃ and leave 3 hours in normal temperature and then check
2-2	Low temp. Test	Keep 4 hours at -20℃±3℃ and leave 3 hours in normal temperature and then check
2-3	Humidity test	Keep 4 hours at + 40℃±3℃ relative humidity 90～95% and leave 3 hours in normal temperature and then checked.
2-4	Thermal cycle test.	Low temperature: -20℃±3℃, temperature:+60℃±3℃, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.

PASS CRITERION :

After these test , the change of S.P.L shall be within ±3 dB .

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3.MEASURING METHOD(SPEAKER MODE)

3-1 .Test Condition

STANDARD

Temperature : 15 ~ 35℃

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

JUDGEMENT

Temperature : 20±3℃

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-2 . Standard Test Fixture

1.Input Power : 0.1W(0.89V)

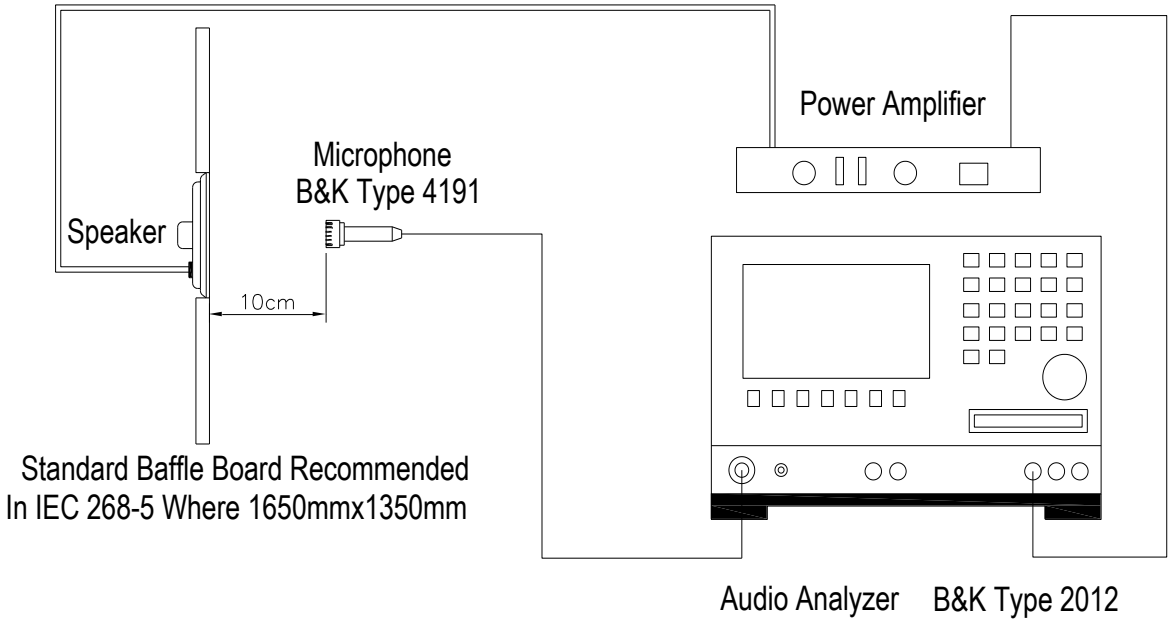
2.Zero Level : -dB

3.Mode : TSR

4.potentiometer Range : 50dB

5.Sweep Time : 0.5sec

Standard test condition of speaker



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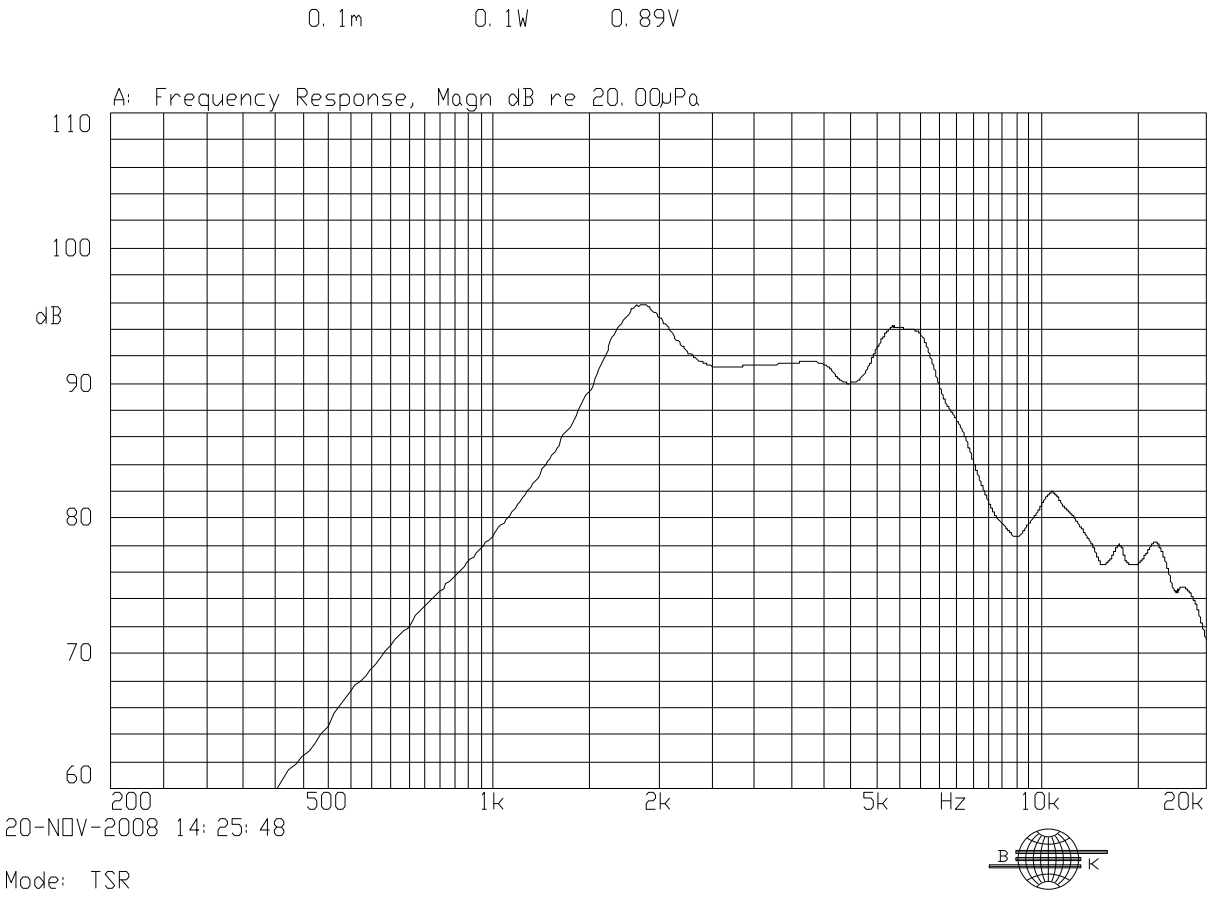
SPECIFICATIONS	Part No.	ABS-201-RC
	Page	4/5

4.FREQUENCY RESPONSE CURVE



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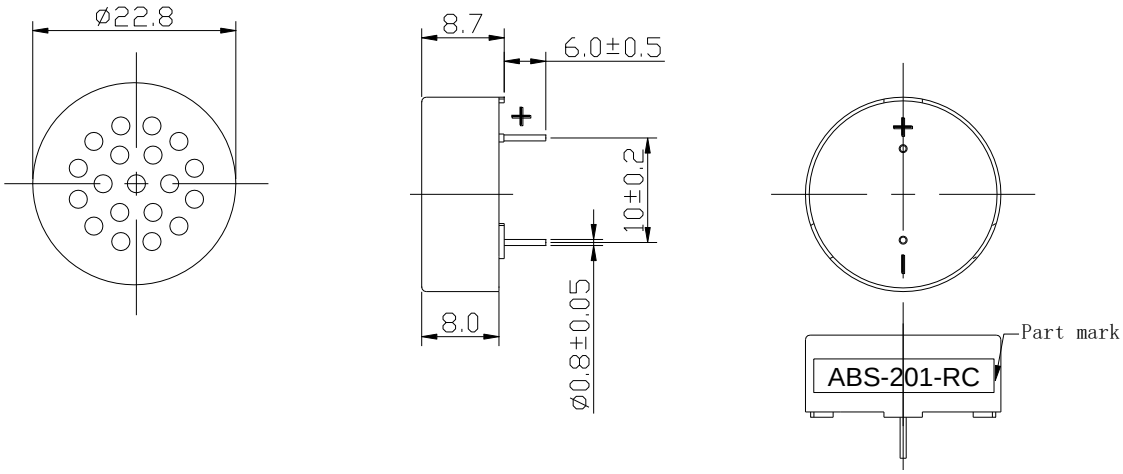
SPECIFICATIONS	Part No.	ABS-201-RC
	Page	5/5

5.DIMENSIONS

Unless otherwise specified,tolerance:±0.3(unit:mm)



9	Housing	1	ABS	GU-001
8	Pin	2	phosphor bronze	GU-001
7	Labels	1	PET	GU-001
6	PCB	1	FR4	GU-001
5	Magnet	1	NdFeB	GU-001
4	Plate	1	SPCC	GU-001
3	Voice coil	1	Copper	GU-001
2	Diaphragm	1	PET	GU-001
1	Frame	1	ABS+SPCC	GU-001
The material must be meet to GU-001				
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK

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