

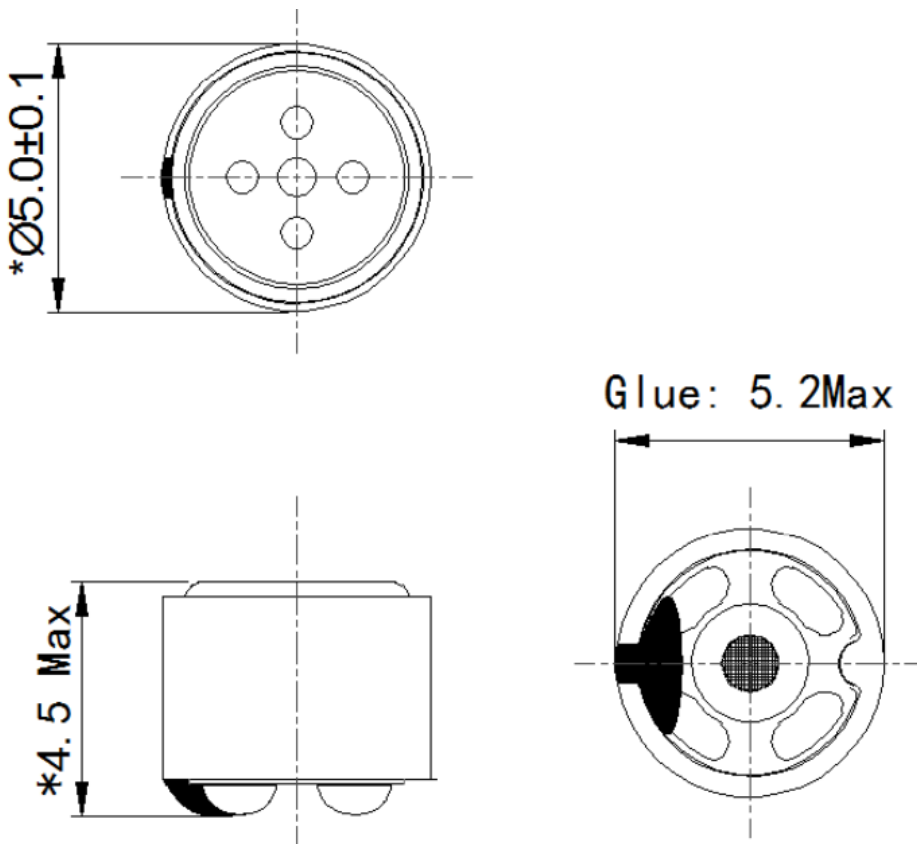
ADS-SP-5.0-20-001

Advantages:

- Small size, better low frequency, high sensitivity.
- Can be used in Earphone.

Mechanical data:

- Dimensions:



Electrical properties:

- Isolation: The case will be electrically isolated from internal coil
- DCR and impedance:

Item	specification
DC resistance	$20\Omega \pm 15\%$

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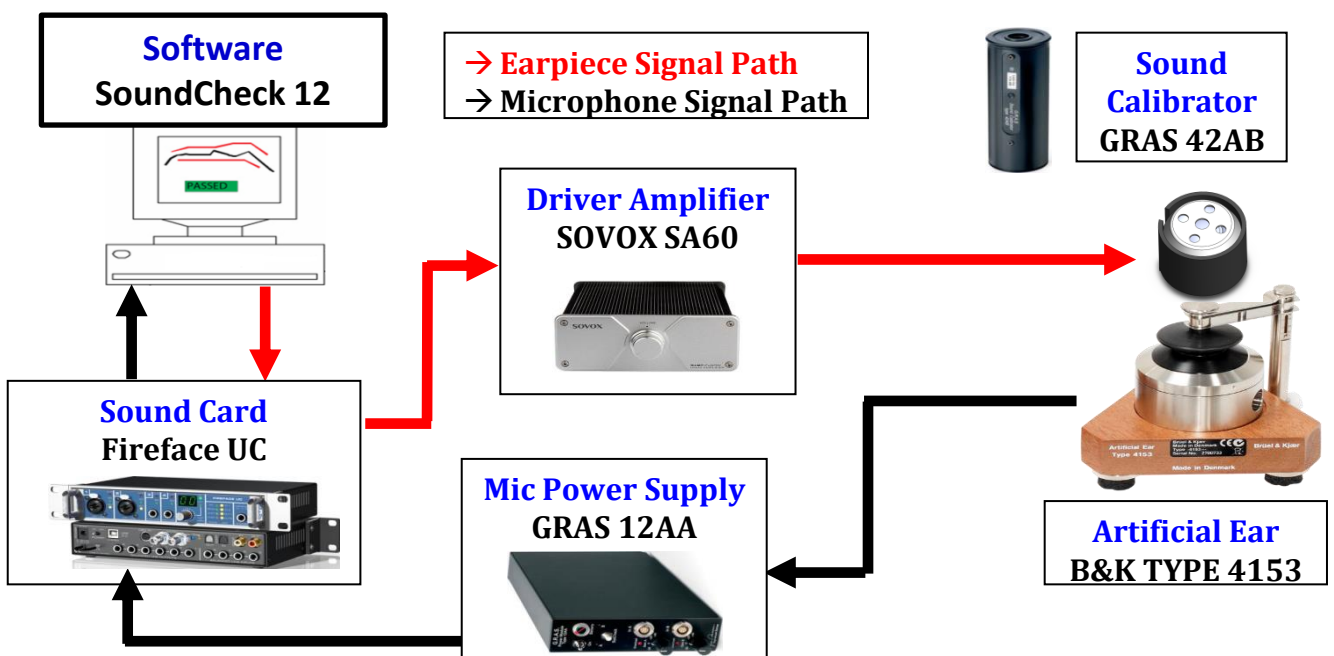
Electrical and Acoustic Properties:

Item	Spec	Unit
Dynamic Dimension	Phi 5 x 4.5	mm
Material of Diaphragm	TPU	
Material of Voice Coil	Copper	
Sensitivity at 1kHz	90±3dB@1KHz	dB
DCR	20± 15%	Ohm
F0	950±20%	Hz
THD	≤3% (100~8KHz)	%
Normal Power	3	mW
Max. Power	5	mW
BUZZE & RATTLES	Must be free audible noise From 50 Hz to 3KHz frequency range, Input : 0.245 VRms	

Acoustic specification:

1, Test condition

- 1.1 Test voltage: DC 141mVrms
- 1.2 Test fixture: IEC318Ear
- 1.3 Source requirements: source impedance <1ohm.

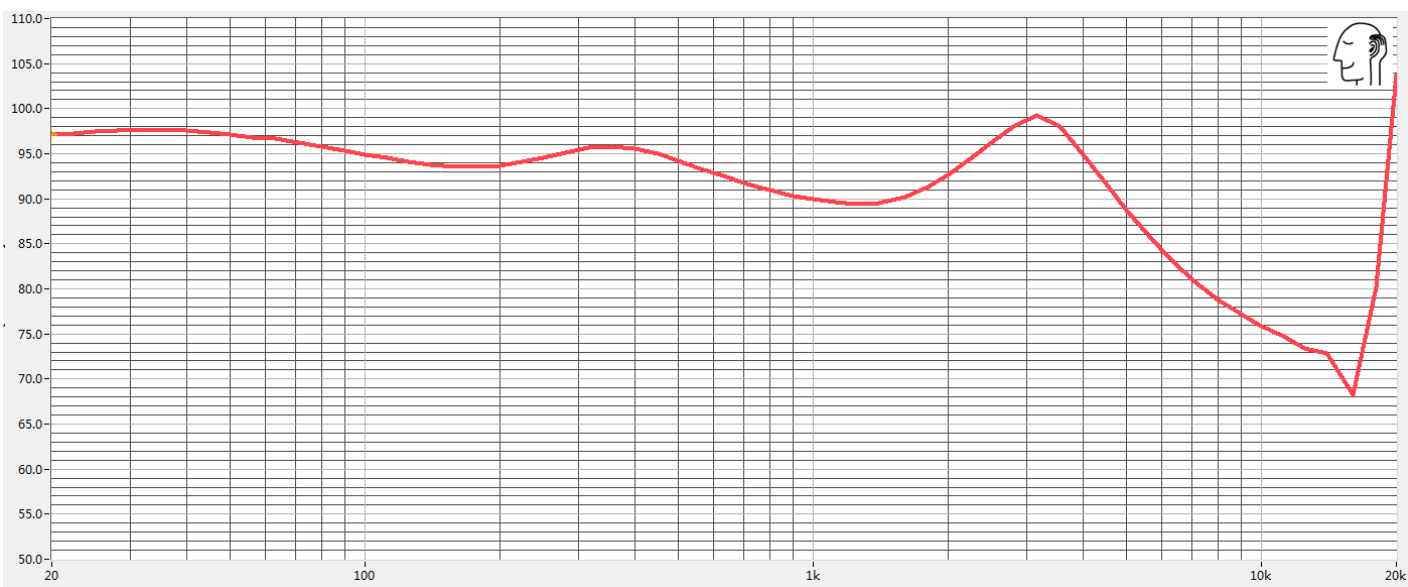


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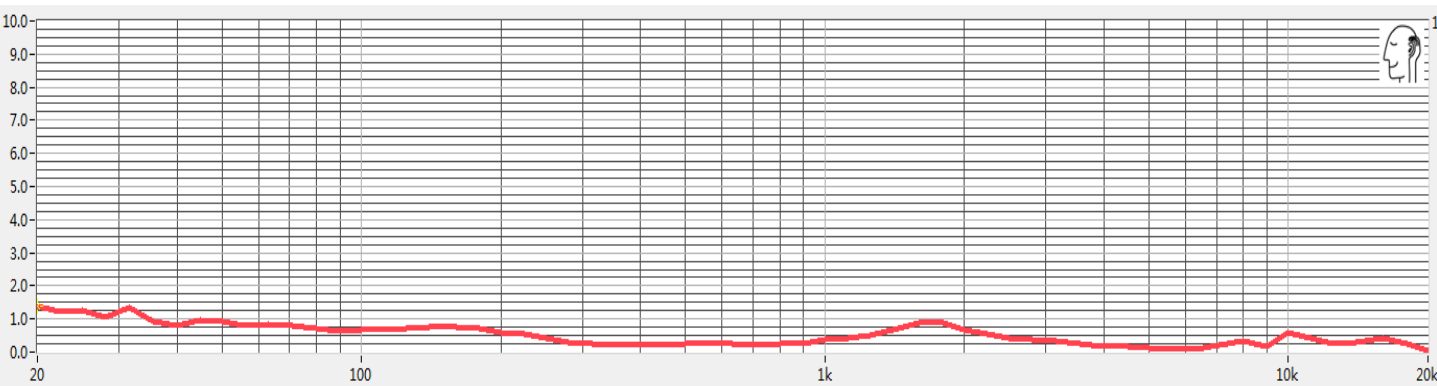
Acoustic specification:

1, Test condition

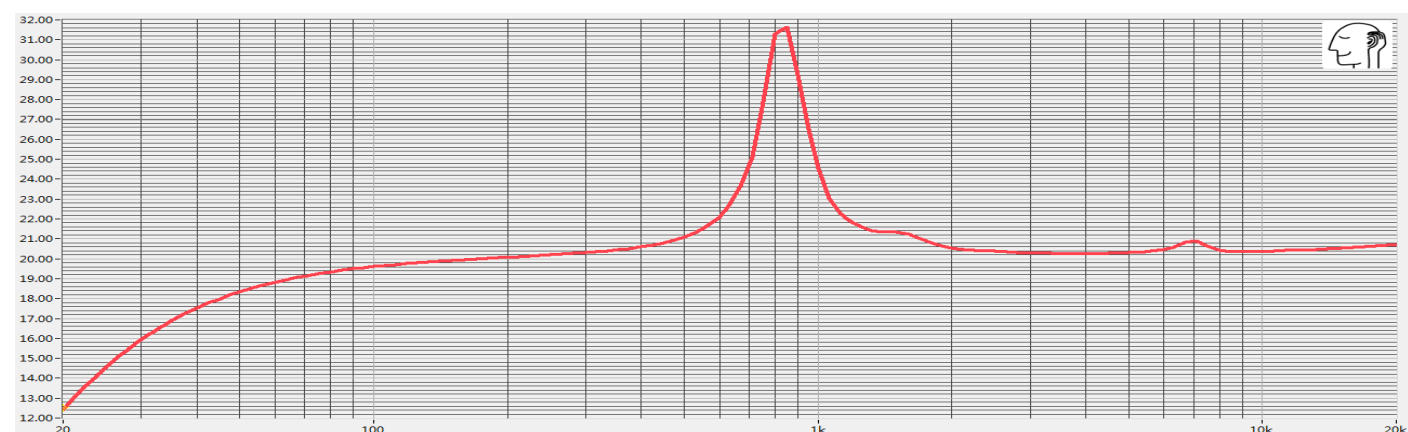
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Frequency Response



THD



Impedance

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Storage and operating requirements:

- Follow below table:

Item	Temperature (°C)	Humidity (%RH)	barometric pressure (hPa)
Storage	-20 ~ 70	10 ~ 60	500 ~ 1060
Operating/test	15 ~ 30	45 ~ 85	860 ~ 1060
Judgment	18 ~ 22	60 ~ 70	860 ~ 1060

Reliability test

3.1 Continues power on test

Condition: 5mw Pink noise; Approximate test time 96h

Pass/fail criteria: Unaffected performance after the test.

3.2 Free fall test

Condition: 1m (To Hard wood) ; Model of operation: Power off

Approximate test time : total 10 times

Pass/fail criteria: Unaffected performance after the test.

3.3 Cold, non-operational

Condition: Temperature:-40°C; Model of operation: Power off

Approximate test time 96 h

Pass/fail criteria: Unaffected performance after the test(At room temperature for 4H).

3.4 Heat, non-operational

Condition: Temperature:+70°C; Model of operation: Power off;
Approximate test time 96 h

Pass/fail criteria: Unaffected performance after the test

3.5 Temperature and humidity cycling, non-operational

Condition: Temperature:-30°C~70°C, 90%RH

Model of operation: Power off

Approximate test time : 4H/cycle, total 15 cycle

Pass/fail criteria: Unaffected performance after the test

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