

INTERVOX Speakers from International ©

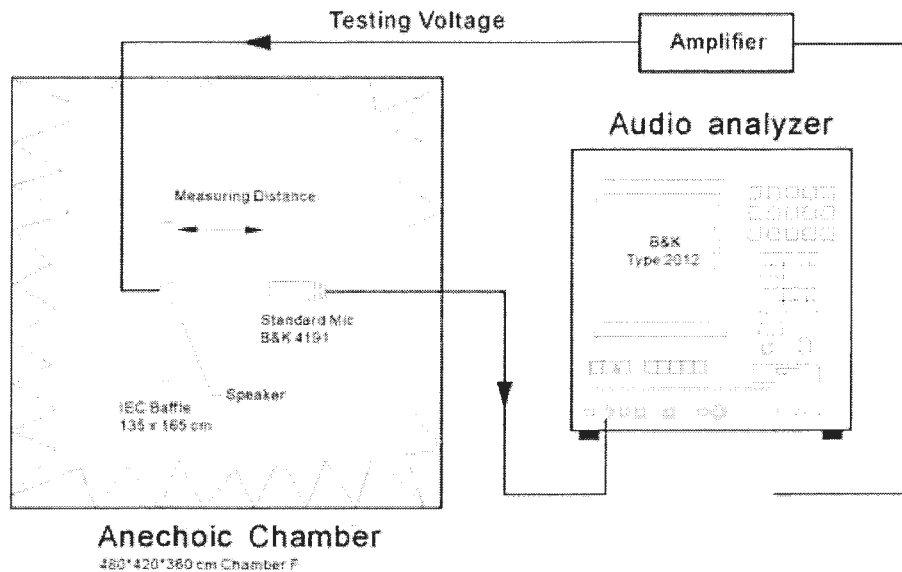
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Code No. G50

| | | | |
|--|--------------------------------------|--|-------------------------------------|
| 1. | MODEL: | S110RMSS (RoHS Compliant) | |
| 2 | Dimension & Weight | Outer Diameter 28 mm | Face Side Dimension 25.1 mm |
| | | Baffle Opening 25.1 mm | |
| | | Height Refer to drawing | Weight 4.8 Grams |
| 3 | Magnet | Materials Rare Earth | Size φ 9.5 × 1.5 mm |
| 4. | Nominal Impedance | 8 Ω ± 15 % , At 1000 Hz. | |
| 5. | Power Rating | Normal 0.5 Watts | Maximum 1.0 Watts Sine Wave. |
| | | Normal Watts | Maximum Watts Square Wave. |
| 6. | Resonant Frequency | 560 ± 20 % Hz. | |
| 7. | Output Sound Pressure Level (S.P.L.) | 82 ± 3 db/ 0.5 Watt • 0.5 Meter | |
| | | Average at 800, 1000, 1200, 1500 Hz. | |
| 8. | Frequency Range | 400 ~ 7,000 Hz. Average SPL – 10 db. | |
| 9. | Distortion | 5 % Maximum At 1000 Hz. 0.5 W. | |
| 10 | Abnormal Sound test | Must be Normal Tested By 2.0 Volts. Sine Wave. | |
| 11 | Load Test | White Noise 2.0 Volts. (RMS.) 96 Hours. | |
| 12 | Polarity | Diaphragm shall move Forward while Apply a Positive DC Signal to the "+" or "Marked" Terminal. | |
| Above Measuring condition under temperature: 25~35°C R.H. 25 ~75%. According to standard GB/T9396-1996 | | | |
| Mechanical and vibration test | | | |
| 13 | High Temperature | + 60 ± 2 °C Humidity Random for 96 Hours. (GB2423.2-81) | |
| 14 | Low Temperature | – 25 ± 2 °C Humidity Random for 96 Hours. (GB2423.1-81) | |
| 15 | Humidity | + 40 ± 2 °C Relative Humidity (RH) 90 ~ 95 % 48 Hours. | |
| 16 | Vibration | Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 Hours. (GB11606.8-89) | |
| 17 | Drop test | 75 CM free falling on Concrete floor, 10 times. (GB2423. 8-81) | |
| After test leave speakers at room temperature for 1 hour, SPL shall not deviate by ± 3 db from pre-test | | | |
| 18 | Temperature Cycle test | – 25 ~ + 60 °C 4 Cycles Temperature tests. (GB5170.18-87) | |
| After test leave speakers at room temperature for 1 hour, SPL shall not deviate by ± 3 db from pre-test Measurement, and meet above spec. item 6. 7. 8. 9. 10. | | | |
| Please refer to next pages for more detailed testing method. | | | |

Test method and User precaution.

1. Characteristics measured according to standard GB/T 9396-1996
 - 1.1 Except other specified, measuring are under Temperature 25~35℃ R.H. 25 ~75%
 - 1.2 Judgement condition Temperature 20 ±2 R.H. 63~67%
2. Output Sound Pressure Level (S.P.L.) and distortion testing setup



3. Environment & Mechanical test:

3.1. High Temperature: GB2423.2-81

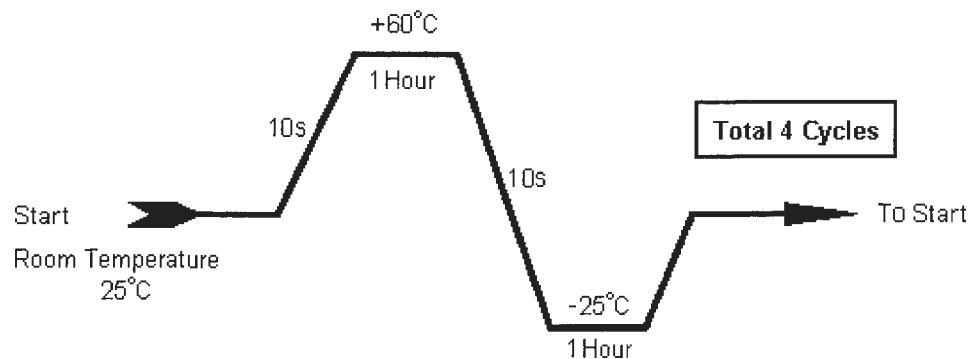
After exposure the speaker in the + 85 ± 2 °C chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 db, and resonant frequency should not deviate by ± 50 Hz, compare with pre-test measurement.

3.2. Low Temperature: GB2423.1-81

After exposure the speaker in the -40 ± 2 °C chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 db, and resonant frequency should not deviate by ± 50 Hz, compare with pre-test measurement.

3.3. Temperature cycle: GB5170.18-87

After exposure the speaker in the chamber, temperature cycle setting as below shows, SPL should not deviate by ± 3 db, and resonant frequency should not deviate by ± 80 Hz, compare with pre-test measurement.



3.4. Humidity: GB5170.18-87

After exposure the speaker in the + 40±2 °C, relative humidity 90% ~ 95% chamber for 96 hours, then leave the speaker at room temperature for 6 hours, the SPL should not deviate by ±3 db, and resonant frequency should not deviate by ±50 Hz, compare with pre-test measurement.

3.5. Vibration: GB11606.8-89

Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 Hours. After test, SPL shall not deviate by ± 3 db from pre-test measurement.

3.6. Load test: GB/T 9396-1996

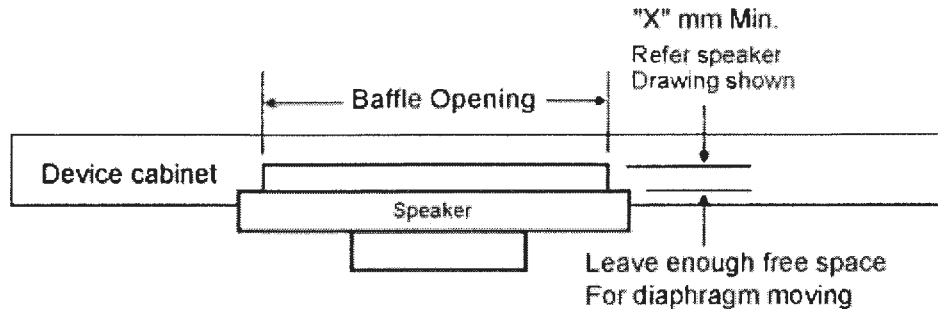
Speaker should not fail after apply 20 ~ 20K Hz white noise rated power input (RMS), 96 hours. After test, SPL shall not deviate by ± 3 db from pre-test measurement.

3.7. Drop test: GB2423. 8-81

75 cm free falling on concrete floor, 10 times. After test, SPL shall not deviate by ± 3 db from pre-test measurement.

4. Mounting precaution

In order to keep speaker work normally, there shall leave enough free space for diaphragm moving, minimum distance required is marked in speaker mechanical drawing.



5. Measuring & standard referenced

Abstract from GB/T 9396-1996 and IEC 268-5:1989 methods of measurement for main characteristics of loud speakers

5.1. Maximum input voltage.

Maximum input voltage is in the shortest time the speaker can bear simulation signal, that persist time is 1 second, interval 60 seconds, repeated 60 times, but the speaker wouldn't be damaged externally. The maximum signal voltage is the maximum input voltage in the shortest time.

5.2. Rated sine voltage.

It is stipulated by manufacturer, sine signal voltage that make speaker work continuously in rated frequency range, but the speaker wouldn't be damaged heartily or mechanically. The persist time of the voltage is 1 hour.

5.3. The shortest time maximum power

It is corresponding with the shortest time maximum input voltage, its definition is U_{st}^2/R , U_{st} indicates the shortest input power, R indicates the rated impedance.

5.4. The long time maximum power

The long time maximum power is corresponding with the long time maximum input voltage, its definition is U_{lt}^2/R , U_{lt} indicates the long time maximum input voltage, R indicates the rated impedance.

5.5. The rated sine power.

The rated sine power is corresponding with the rated sine voltage, its definition is, U_s^2/R indicates the maximum sin voltage, R indicates the rated impedance.

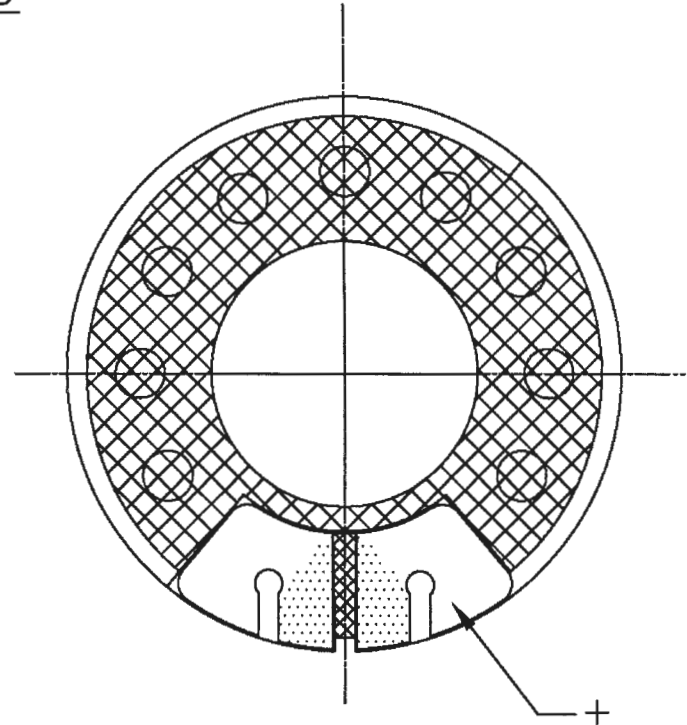
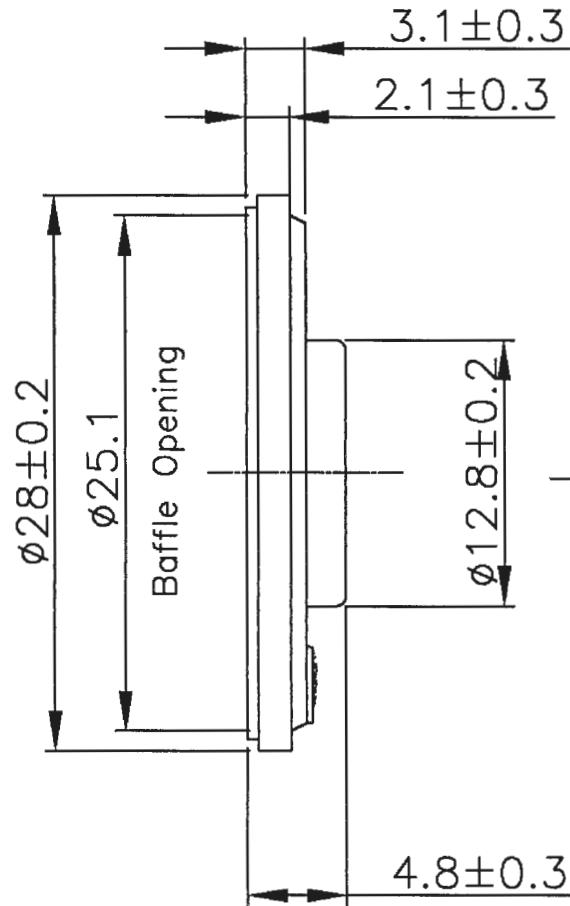
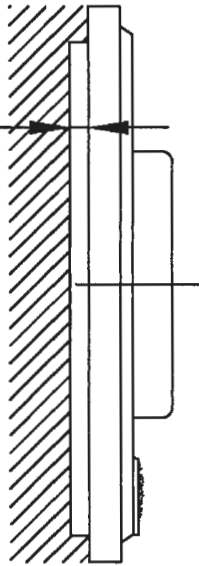
5.6. The rated noise power.

The rated noise power is corresponding with the rated noise voltage, its definition is U_n^2/R , U_n indicates the rated noise voltage, R indicates the rated impedance.

MOUNTING NOTICE

AT LEAST 0.6

FOR
DIAPHRAGM
MOVING



| | | | | | |
|------------------|--------|-------------|-------|--|--|
| V1.0 | | 05.12.13 | | | |
| VERSION | DATE | DESCRIPTION | | | |
| Unit: mm | Scale: | Appr.: | | | |
| Tol.: 其餘±1/2IT13 | | CHK.: | Dwg.: | | |

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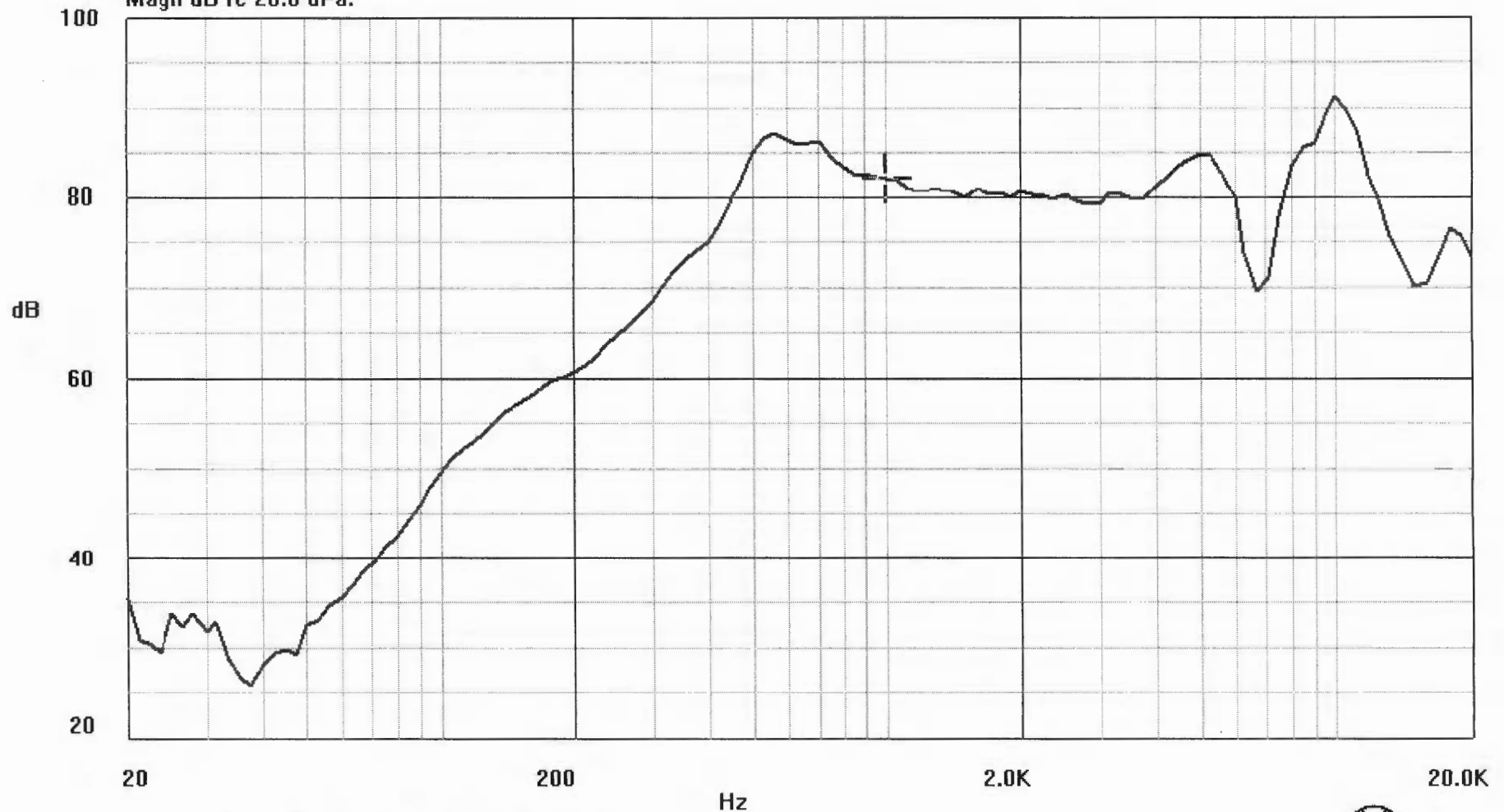
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S110RMSS VOL:2.0V[0.5W] DIS:0.5M

Magn dB re 20.0 uPa.



Current Curve: 0 X: 1000 Hz Y: 82.13 dB

Time[Y/M/D H:M:S]: 2005/12/ 5 10:47:16

