

VECO VANSONIC ENTERPRISE CO.,LTD.

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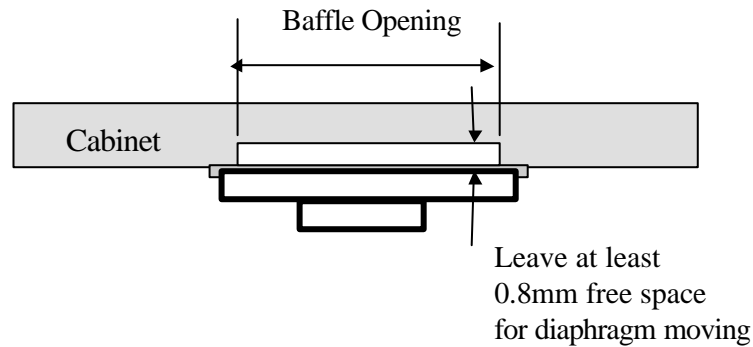
FAX: +886-2-962 5220

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|---|---|---|
| 1. | MODEL: HLI | 36CS08FN-M50BT(Clear Mylar)/-50BD(Black Mylar) |
| 2. | Dimension | Outer Diameter 36 mm. Baffle Opening 32.5 mm. |
| | | Height Refer to Drawing mm. Weight 7.5 Grams. |
| 3. | Magnet | Materials Rare Earth Size: f 12.5 x 1.5 mm. |
| 4. | Impedance | 8 W \pm 15 % At 1000 Hz. |
| 5. | Power Rating | Normal 500 mW. Maximum 1000 mW. |
| 6. | Lowest Resonant Frequency | 500 \pm 20 % Hz. |
| 7. | Output Sound Pressure Lever (S.P.L.) | 85 \pm 3 db / 0.5 Watt · 0.5 Meter. |
| | | Average at 800, 1000, 1200, 1500 Hz. |
| 8. | Frequency Range | 300 ~ 6000 Hz. Average SPL – 10 db. |
| 9. | Distortion | 5 % Maximum At 1000 Hz. 500 mW. |
| 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 |
| | | Current to the " + " or " Marked " Terminal. |
| Environment & Mechanical test. | | |
| 13. | High Temperature | + 70 \pm 2 °C Humidity Random for 96 Hours. |
| 14. | Low Temperature | - 40 \pm 2 °C Humidity Random for 96 Hours. |
| 15. | Humidity | + 40 \pm 2 °C Relative Humidity 90 ~ 95 % 96 Hours. |
| After test leave at room temperature for 1 hour, SPL shall not deviate by \pm 3 db from pre-test measurement, and meet above spec. item 6. 7. 8. 9. 10. | | |
| 16. | Temperature Cycle test | - 40 ~ + 70 °C 4 Cycles Temperature test. |
| After test leave at room temperature for 1 hour, SPL shall not deviate by \pm 4 db from pre-test measurement, and meet above spec. item 6. 7. 8. 9. 10. | | |
| 17. | Vibration | Frequency 30 \pm 15 Hz, Amplitude 1.5 mm for 3 Hours. |
| 18. | Drop test | 75 CM free falling on Concrete floor, 10 times. |
| After test, SPL shall not deviate by \pm 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. | | |

User precaution and Test method.

1. Mounting precaution.

Keep clearance in front of the speaker, at least leave 0.8mm for diaphragm moving freely.



2. Environment test - High temperature.

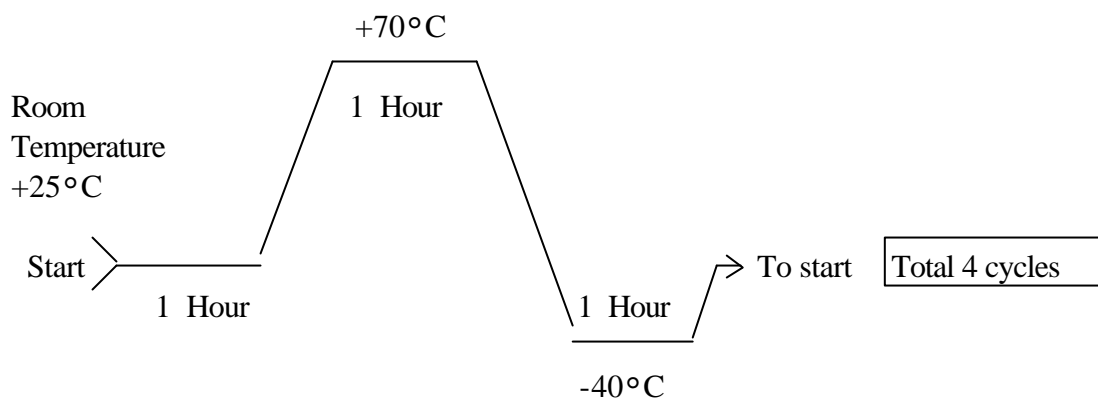
After exposure the speaker in the $+ 70 \pm 2$ °C chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 db, and resonant frequency should not deviate by ± 50 Hz, compare with pre-test measurement.

3. Environment test - Low temperature.

After exposure the speaker in the $- 40 \pm 3$ °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.

4. Environment test - Temperature cycle.

After exposure the speaker in the chamber, temperature cycle setting as below shows, SPL should not deviate by ± 4 db, and resonant frequency should not deviate by ± 80 Hz, compare with pre-test measurement.



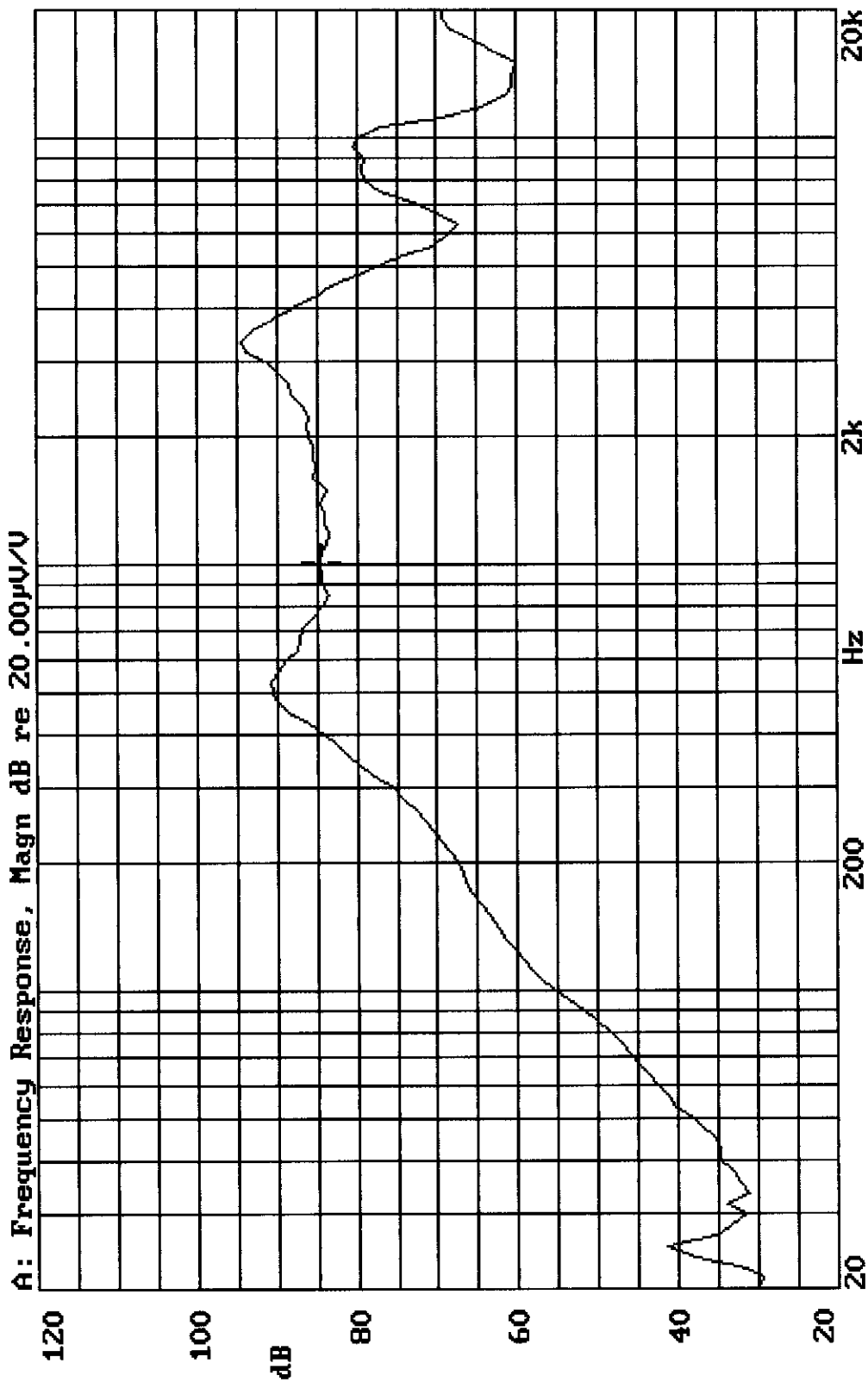
5. Environment test - Humidity.

After exposure the speaker in the $+ 40 \pm 2$ °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.

6. Load test

Speaker should not fail after apply 20 ~ 20K Hz while noise rated power input (RMS), 24 hours.

P36CS08FN-50BT VOL:2.0V(0.5W) DIS:0.5M VANSONIC SSR Fund.
X:1.0000kHz *Y:84.61dB ZA:1.0000



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Mode: SSR

