



Specification For Approval

承認書

客戶 (Customer)	
品名(Product Name)	揚聲器 Dynamic Speaker
客戶料號(Customer Parts No.)	
供應商料號(Supplier Model No.)	P20VSG08OQ-1-N16NT
承認簽章 Approval Signature	

Revision History

Version	Date	Description	Author
V1.0	2004/5/26	Creation	許巧林
V1.1	2004/6/2	Modify No.11 & drawing	許巧林
V1.2	2004/10/23	Modify No.7 & Fig.2	湯海林

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批准 (Approval)		2004/10/23

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1.	MODEL:	20VSG08OQ-1-N16NT DYNAMIC SPEAKER
2.	Dimension	Outer Diameter 19.5x13.5 mm.
		Height Refer to Fig 1 mm. Weight 2.7 Grams.
3.	Magnet	Materials NdFeB
4.	Impedance	8 Ω ± 15 % At 1000 Hz.
5.	Power Rating	Normal 0.5 W. Maximum 0.8 W.
6.	Lowest Resonant Frequency	750 ± 20% Hz at 1.0V measured by SUNLILAB® 7117C
7.	Output Sound Pressure (S.P.L.)	86 ± 3 db / 0.5Watt · 0.3Meter , Measured by B&K Type 2012
		At 800, 1000, 1200, 1500, HZ Average
8.	Frequency Range	500 ~ 20,000+ Hz. Average SPL -10db Refer to Fig. 2
9.	Distortion	5 % Maximum at 1500 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.) 24 hrs.
12.	Storage Temperature	- 25 ~ +70
13.	Operating Temperature	- 20 ~ +60

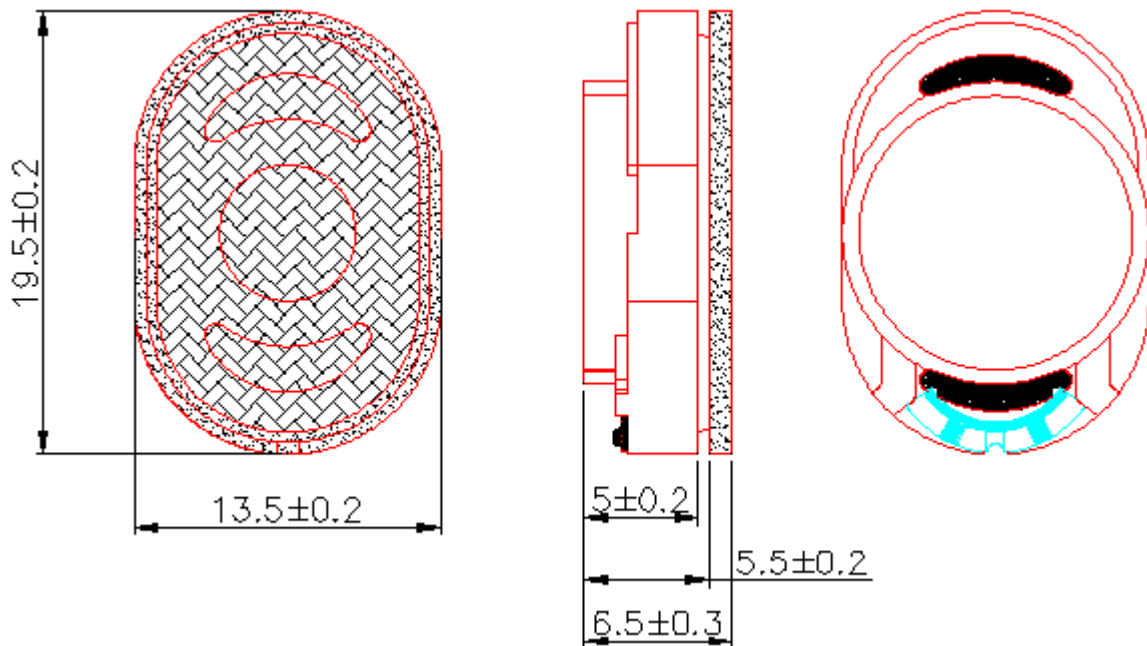
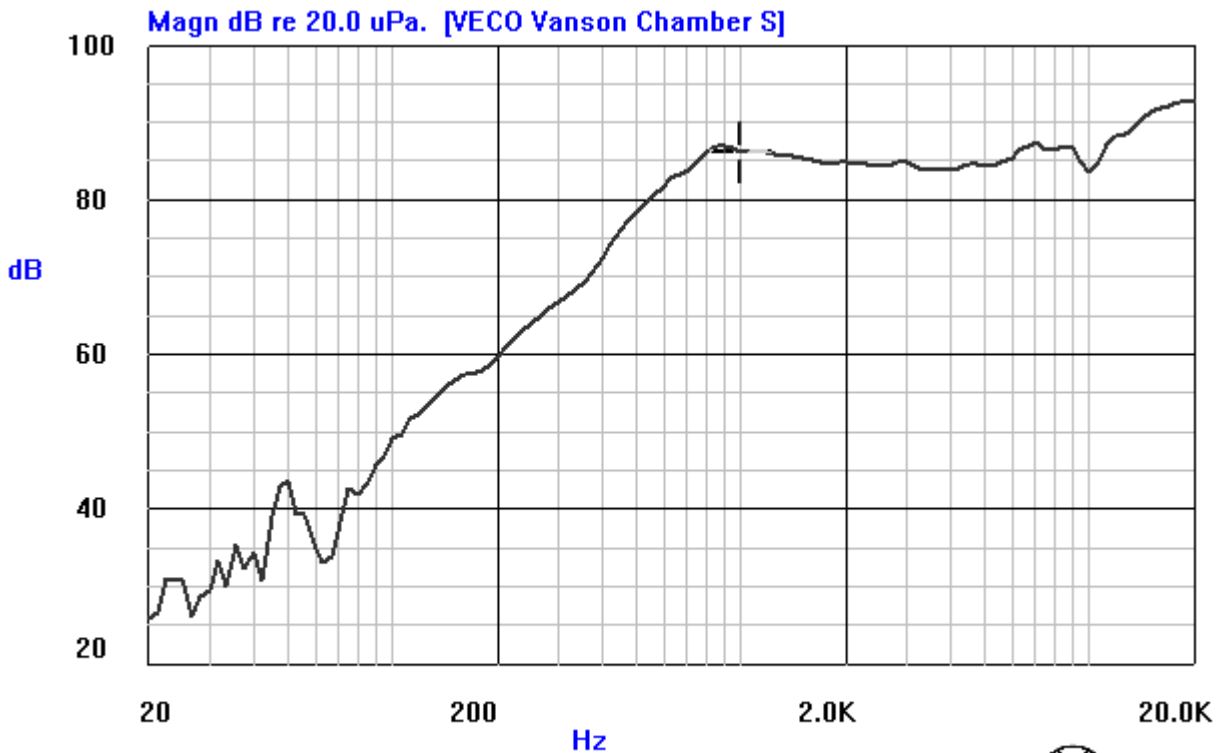


Fig.1

14.Frequency Response Curve.

14.1 Speaker

Sound Pressure Level(SPL) : 86 ± 3 dB 0.5W/0.3M at (800,1k,1.2k,1.5k) AV

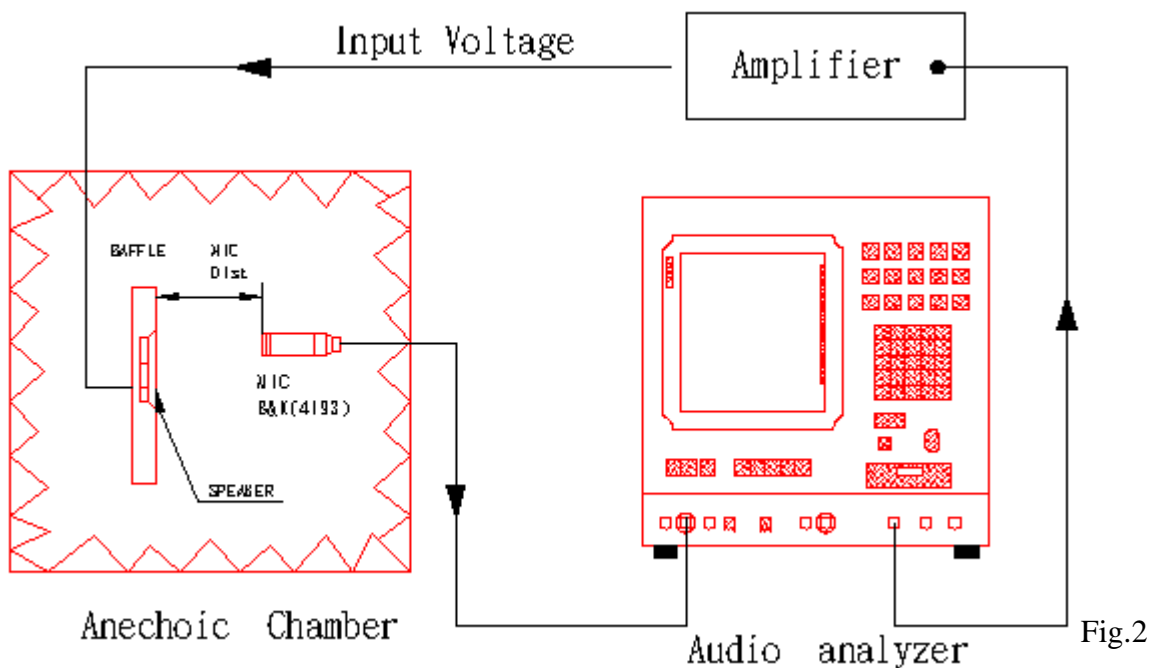


Current Curve: 0 X: 1000 Hz Y: 86.22 dB

Time[Y/M/D H:M:S]: 2004/ 7/26 1:58:32



INPUT: 0.5W
 MIC DIST: 0.3M
 BAFFLE: IEC6028-5



15.Environment Test

15.1 Environment test – High temperature.

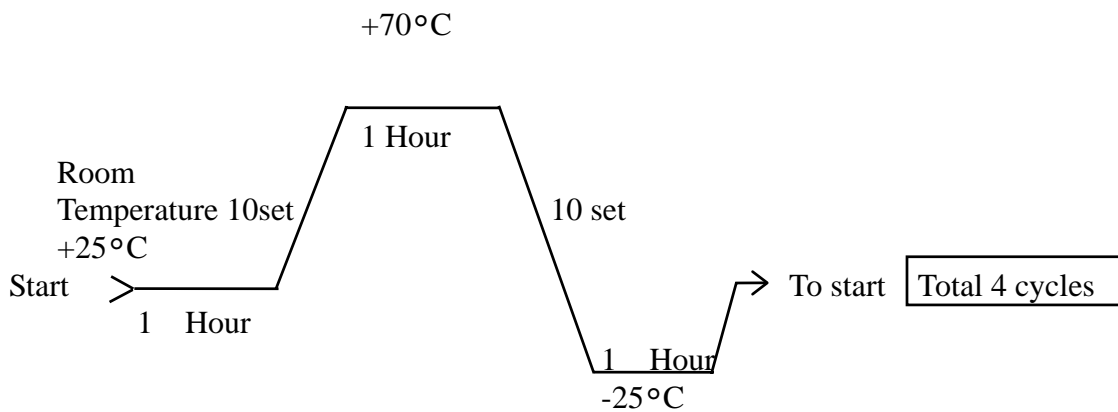
After exposure the speaker in the $+ 70 \pm 3$ °C chamber for 24 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 db, compare with pre-test measurement.

15.2 Environment test - Low temperature.

After exposure the speaker in the $- 25 \pm 3$ °C chamber for 24 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 db, compare with pre-test measurement.

15.3 Environment test-Temperature cycle.

After exposure the speaker in the chamber, temperature cycle setting as below shows, SPL should not Deviate by ± 4 db,compare with pre-test measurement.



15.4 Environment test – Humidity.

After exposure the speaker in the $+ 40 \pm 3$, relative humidity 90% ~95% chamber for 24 hours, then leave the speaker at room temperature for 6 hours, the SPL should not deviate by ± 3 db, compare with pre-test measurement.