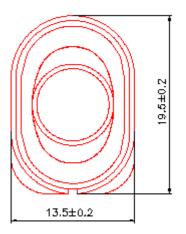


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1.	MODEL:	P20VS08P-3 DYNAMIC SPEAKER
2.	Dimension	Outer Diameter 19.5x13.5 mm.
		Height Refer to Fig 1 mm. Weight 2.2 Grams.
3.	Magnet	Materials NdFeB
4.	Impedance	<b>8</b> Ω ± <b>15</b> % At <b>1000</b> Hz.
5.	Power Rating	Normal <b>1.0</b> W. Maximum <b>1.5</b> W.
6	Lowest Resonant Frequency	<b>700 ± 20% Hz</b> at 1.0V measured by SUNLILAB® 7117C
7.	Output Sound Pressure	80± 3 db / 1.0Watt · 0.5Meter, Measured by B&K Type 2012
	(S.P.L.)	At 800, 1000, 1200, 1500, HZ Average
8.	Frequency Range	<b>500</b> ~ <b>20,000+</b> Hz. Average SPL -10db Refer to Fig. 2
9.	Distortion	<b>5</b> % Maximum at 1500 Hz <b>1.0</b> W.
10.	Abnormal Sound Test	Must be Normal Tested By 2.83 Volts. Sine Wave.
11.	Load Test	White Noise 2.83Volts(RMS.) 24hrs.
12	Storage Temperature	- 25 ~ +70
13.	Operating Temperature	- 20 ~ +60





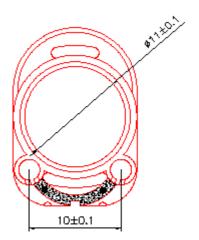
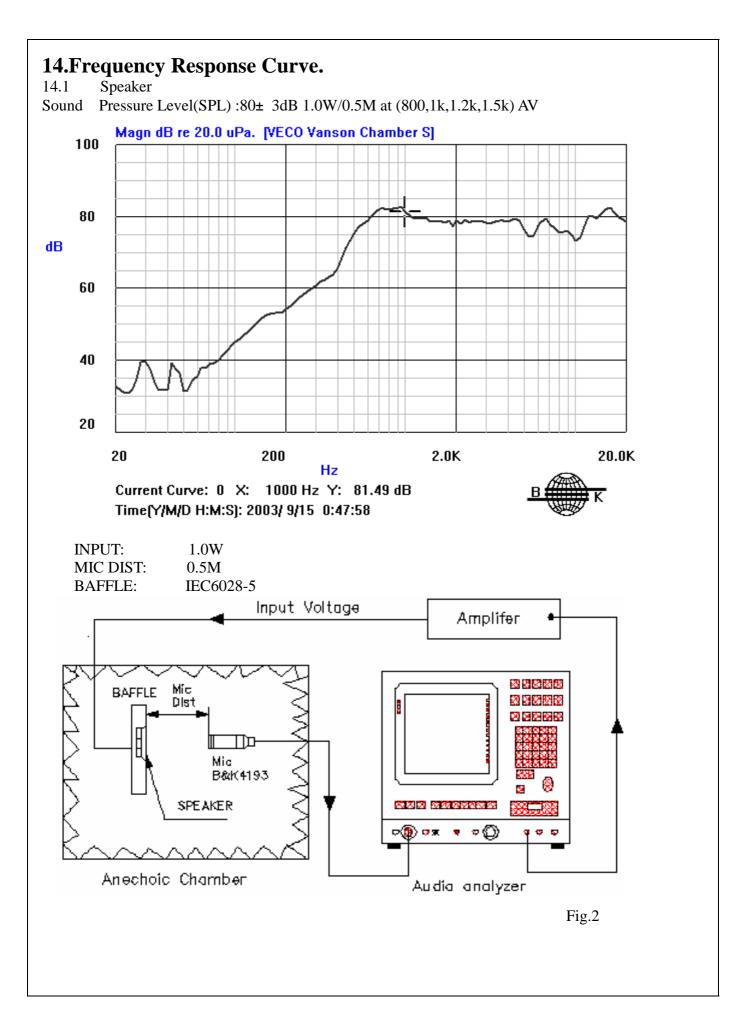


Fig.1



## 15.Environment Test

# 15.1 Environment test – High temperature.

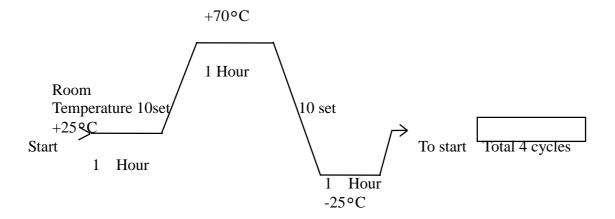
After exposure the speaker in the  $+70\pm 3$  °C chamber for 24 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by  $\pm 3$  db, compare with pre-test measurement.

## 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  $\pm 3$  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  $\pm$  4db,compare with pre-test measurement.



# 15.4 Environment test – Humidity.

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