

# VECO VANSONIC ENTERPRISE CO., LTD.

8F., No.7, Lane 16, Sec.2, Szechwan Road, Panchiao, Taipei Hsien, TAIWAN.

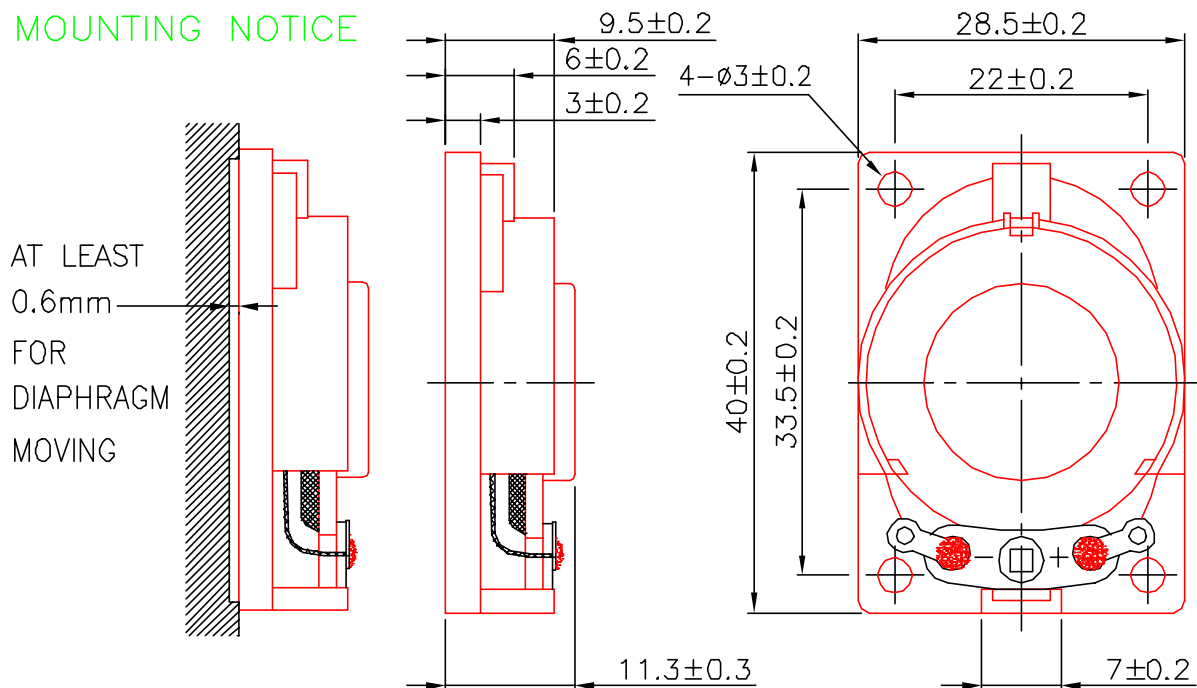
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FAX: +886-2-29625220

E-MAIL: VANSONIC@MS4.HINET.NET

1.	<b>MODEL:</b>	<b>40KC08</b>			
2.	Dimension	Outer Diameter	28.5X40mm.	Baffle Opening	26X38 mm.
		Height	Refer to Drawing.	Weight	12 Grams.
3.	Magnet	Materials	Rare Earth	Size	∅ 12.5X1.8 mm.
4.	Nominal Impedance	8	± 15 %	At	1500 Hz.
5.	Power Rating	Normal	1000 mW.	Maximum	2000 mW.
6.	Lowest Resonant Frequency	390	± 20 %		Hz.
7.	Output Sound Pressure Lever (S.P.L.)	82	± 3 db / 1.0 Watt	. 0.5 Meter.	
		Average at	600, 800, 1000, 1200	Hz.	
8.	Frequency Range	250	~ 20000 Hz.	Average SPL - 10 db.	
9.	Distortion	5 %	Maximum At	1000 Hz.	1000 mW.
10.	Abnormal Sound Test	Must be Normal Tested By		2.83 Volts.	Sine Wave.
11.	Load Test	White Noise with Weighted Filter		2.83Volts.(RMS)	24Hrs.
12.	Polarity	Diaphragm shall move Forward when Apply a Positive DC.			
		Current to the "+" or "Marked" Terminal.			

## MOUNTING NOTICE



Unit : mm

Housing Material : ABS

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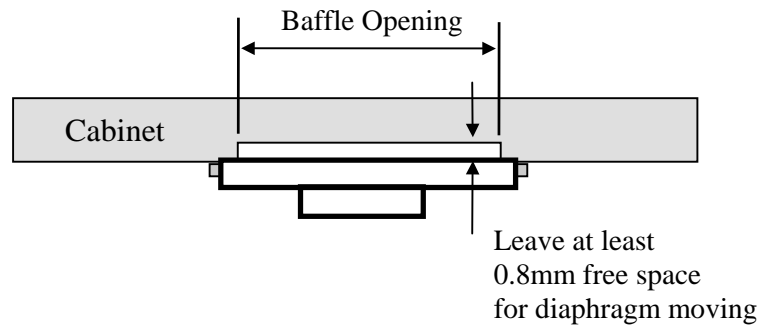
FAX: +886-2-962 5220

1.	<b>MODEL:</b>	<b>40KC08</b>
2.	Dimension	Outer Diameter <b>28.5X40</b> mm. Baffle Opening <b>26X38</b> mm.
		Height <b>Refer to Drawing</b> mm. Weight <b>12</b> Grams.
3.	Magnet	Materials <b>Rare Earth</b> Size: <b>12.5 <math>\phi</math> x 1.8</b> mm.
4.	Impedance	<b>8 <math>\Omega</math> <math>\pm</math> 15 %</b> At <b>1500</b> Hz.
5.	Power Rating	Normal <b>1</b> W. Maximum <b>2</b> W.
6.	Lowest Resonant Frequency	<b>390 <math>\pm</math> 20 %</b> Hz.
7.	Output Sound Pressure Level (S.P.L.)	<b>82 <math>\pm</math> 3</b> db / 1.0 Watt $\cdot$ 0.5 Meter.
		Average at <b>600, 800, 1000, 2000</b> Hz.
8.	Frequency Range	<b>250 ~ 20000</b> Hz. Average SPL – 10 db.
9.	Distortion	<b>5 %</b> Maximum At <b>1000</b> Hz. <b>1</b> W.
10.	Abnormal Sound Test	Must be Normal Tested By <b>2.83</b> Volts. Sine Wave.
11.	Load Test	White Noise <b>2.83</b> Volts. (RMS.) <b>24</b> Hours.
12.	Polarity	Diaphragm shall move Forward while Apply a Positive DC
		Current to the " + " or " Marked " Terminal.
<b>Environment &amp; Mechanical test.</b>		
13.	High Temperature	+ 70 $\pm$ 2 $^{\circ}$ C Humidity Random for 96 Hours.
14.	Low Temperature	- 25 $\pm$ 2 $^{\circ}$ C Humidity Random for 96 Hours.
15.	Humidity	+ 40 $\pm$ 2 $^{\circ}$ 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	- 25 ~ + 70 $^{\circ}$ 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.

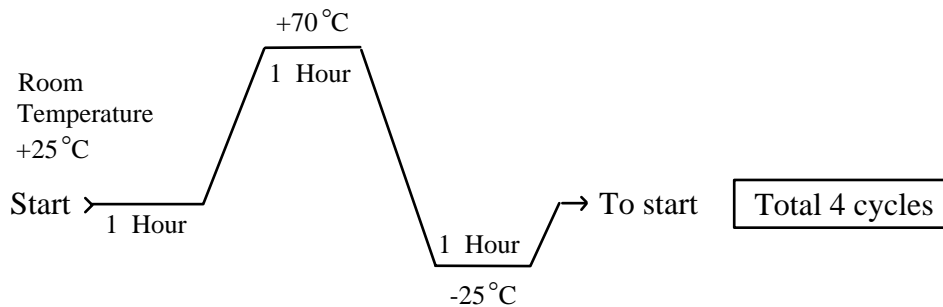
After exposure the speaker in the  $+ 70 \pm 2 \text{ }^\circ\text{C}$  chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by  $\pm 3 \text{ db}$ , and resonant frequency should not deviate by  $\pm 50 \text{ Hz}$ , compare with pre-test measurement.

3. Environment test - Low temperature.

After exposure the speaker in the  $- 25 \pm 3 \text{ }^\circ\text{C}$  chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by  $\pm 3 \text{ db}$ , and resonant frequency should not deviate by  $\pm 50 \text{ Hz}$ , 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  $\pm 4 \text{ db}$ , and resonant frequency should not deviate by  $\pm 80 \text{ Hz}$ , compare with pre-test measurement.



5. Environment test - Humidity.

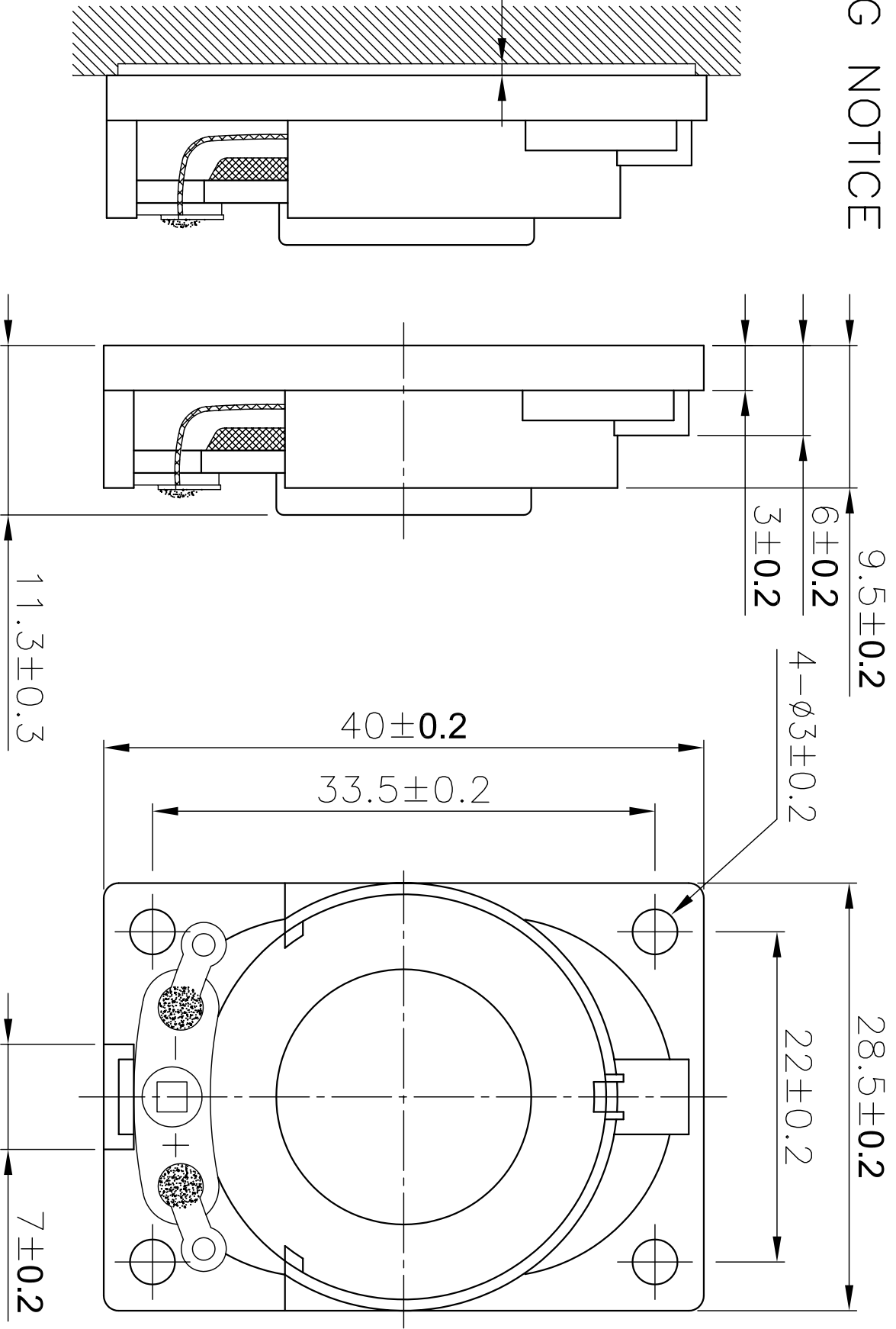
After exposure the speaker in the  $+ 40 \pm 2$  °C, relative humidity 90% ~ 95% chamber for 96 hours, then leave the speaker at room temperature for 6 hours, the SPL should not deviate by  $\pm 3$  db, and resonant frequency should not deviate by  $\pm 50$  Hz, compare with pre-test measurement.

6. Load test

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

# MOUNTING NOTICE

AT LEAST  
0.6mm  
FOR  
DIAPHRAGM  
MOVING

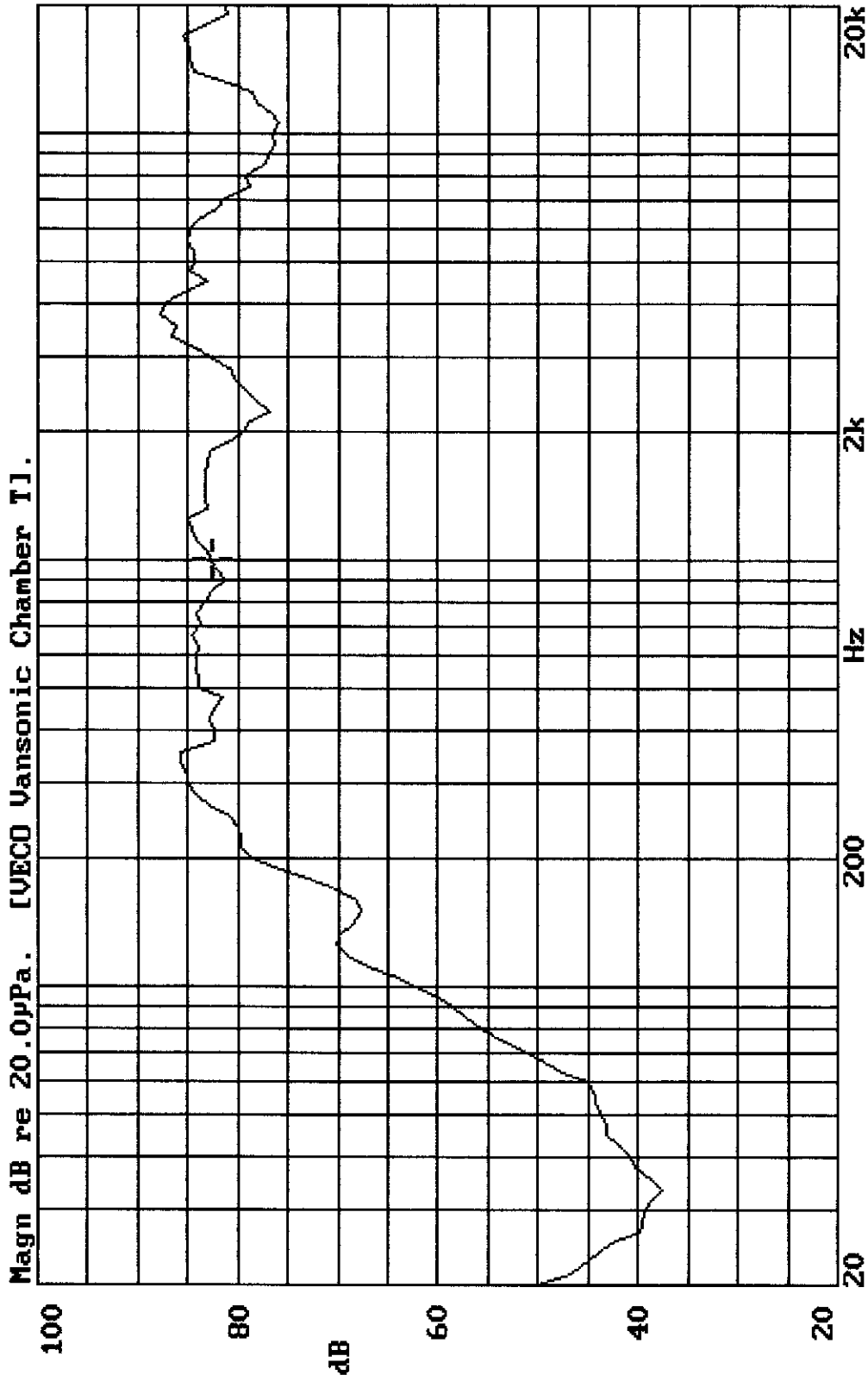


**Vansonc Enterprise CO.,Ltd.**  
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**Title: P40KC08**  
G:\DWG\VECO\TOOL\A01\P40KC08.DWG

Unit: mm	Scale:	Appr.:	Dwg.:
Tol.:	CHK.:		
VERSION DATE		DESCRIPTION	
V 1.0	04.03.17		

40KCO8 Vol:2.828V(1.0W) Dis:0.5M VANSONIC  
X:1.0000kHz \*Y:82.71dB ZA:Live Curve SSR Fund.



12-APR-1999 16:51:14

Mode: SPEAKER

