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Specification





品名 (Product Name)	揚聲器 (Speaker)
料號 (Model No.)	P35KM08

	Revision History				
Version	Date	Description	Author		
V1.0	2005/05/03		WS		

核準 (Approval)		
審查 (Check)		
制作 (Author)	吳爽	

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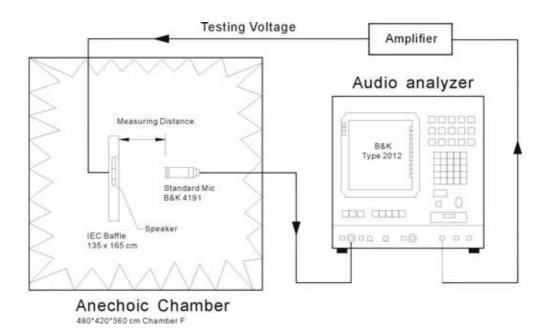
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1.	MODEL:	35KM08	
2	Dimension & Weight	Outer Diameter 16X35 Face side Dimension 14.5X31.5 mm	
		Baffle Opening 15X32 mm	
		Height Refer to drawing Weight 2.6 Grams	
3	Magnet	Materials Rare Earth Size \$7.9 x1.3 mm	
4.	Nominal Impedance	8 Ω ± 15 %, At 1500 Hz.	
5.	Power Rating	Normal 1.0 Watts Maximum 1.5 Watts Sine Wave.	
		Normal Watts Maximum Watts Square Wave	
6.	Resonant Frequency	650 ± 20 % Hz.	
7.	Output Sound Pressure	81 ± 3 db/ 1.0 Watt • 0.5 Meter	
	Level (S.P.L.)	Average at 800, 1000, 1200, 1500 Hz.	
8.	Frequency Range	400 ~ 20000 Hz. Average SPL – 10 db.	
9.	Distortion	5 % Maximum At 1000 Hz. 1.0 W.	
10	Abnormal Sound test	Must be Normal Tested By 2.83 Volts. Sine Wave.	
11	Load Test	White Noise with weighted filter 2.83 Volts. (RMS.) 96 Hours.	
12	Polarity	Diaphragm shall move Forward while Apply a Positive DC Signal to the " +	
		or "Marked "Terminal.	
Abo	ove Measuring condition under	temperature : 25~35 $^\circ\!\!\mathbb{C}~$ 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	$-25 \pm 2 \circ C$ Humidity Random for 96 Hours. (GB2423.1-81)	
15	Humidity	+ 40 \pm 2 °C Relative Humidity (RH) 90 ~ 95 % 96 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)	
Af	ter test leave speakers at room	n temperature for 1 hour, SPL shall not deviate by \pm 3 db from pre-test	
18	Temperature Cycle test $-25 \sim +60 ^{\circ}\text{C}$ 4 Cycles Temperature test. (GB5170.18-87)		
Afte	er test leave speakers at room	temperature for 1 hour, SPL shall not deviate by \pm 4 db from pre-test	
Mea	asurement, and meet above sp	bec. item 6. 7. 8. 9. 10.	
	Ple	ase refer to next pages for more detailed testing method.	

Please refer to next pages for more detailed testing method. F: \SPEC\SQUARE\35KM\P35KM08.DWG

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°C 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

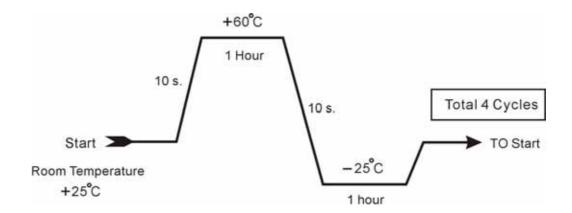
After exposure the speaker in the + 60 \pm 2 °C chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by \pm 3 db, and resonant frequency should not deviate by \pm 50 Hz, compare with pre-test measurement.

3.2 Low Temperature: GB2423.1-81

After exposure the speaker in the -25 ± 2 °C chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by \pm 3 db, and resonant frequency should not deviate by \pm 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 \pm 4 db, and resonant frequency should not deviate by \pm 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

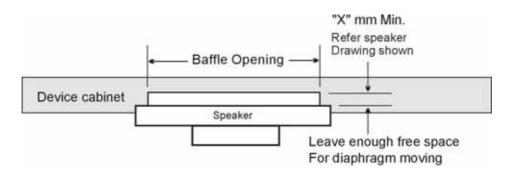
Speaker should not fail after apply 20 ~ 20K Hz white noise rated power input (RMS), 96 hours. After test, SPL shall not deviate by ± 3 db from pre-test measurement,

3.7 Drop test: GB2423. 8-81

75 cm free falling on concrete floor, 10 times. After test, SPL shall not deviate by \pm 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.

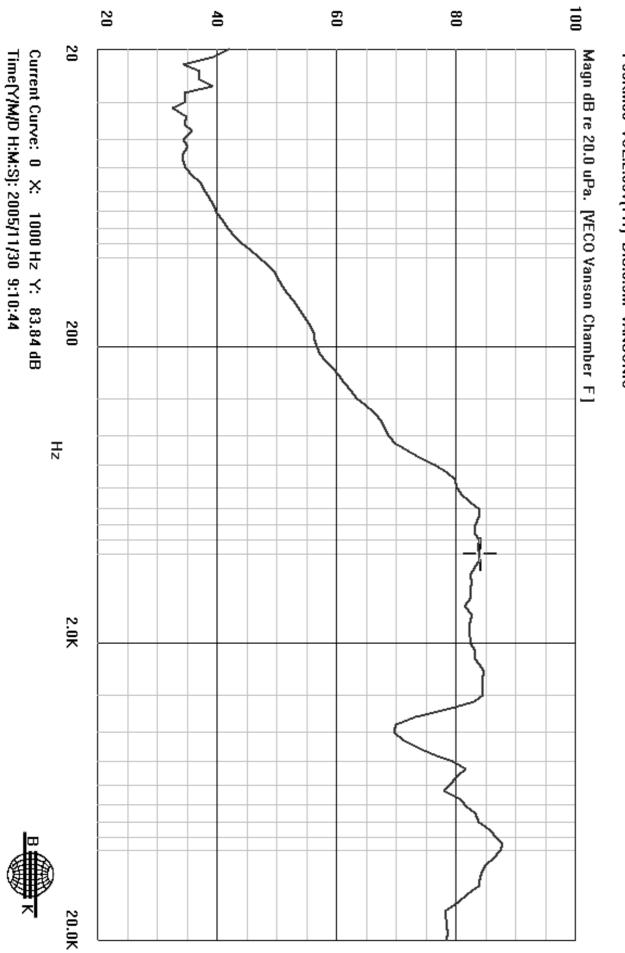
The long time maximum power is corresponding with the ling time maximum input voltage, Its definition is $U_{tt}2/R$, U_{tt} indicates the long time maximum input voltage, R indicates the rated impedance.

5.4 The rated sine power.

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

5.5 The rated noise power.

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



P35KM08 VOL:2.83V[1W] DIS:0.5M VANSONIC

dB

