

Specification

格





品名 (Product Name)揚聲器 (Speaker)料號 (Model No.)P16CR08G-9

	Revision History				
Version	Date	Description	Author		
V001	2009/08/14	Preliminary	WHK		

核準 (Approval)	高紅華	2009/08/14
審查 (Check)	曾憲財	2009/08/14
制作 (Author)	韋華刊	2009/08/14

不使用1級環境管理物質

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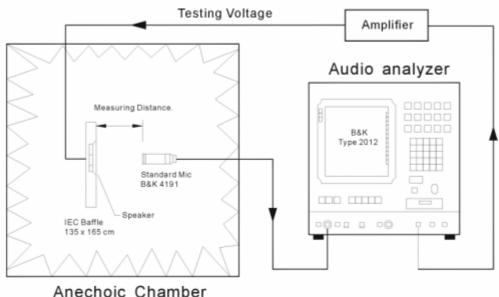
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1.	MODEL:	P16CR08G-9		
2	Dimension & Weight	Outer Diameter 16 mm		
		Baffle Opening 16 mm		
		Height Refer to drawing Weight 1.4 Grams		
3	Magnet	Materials NdFeB Size Ø 7.7X0.9 _{mm}		
4.	DC Resistance	8 $\Omega \pm 15$ %, On OHM Meter		
5.	Power Rating	Normal 1.2 Watts Maximum 1.5 Watts Sine Wave.		
		Normal Watts Maximum Watts Square Wave.		
6.	Resonant Frequency	1200 ± 20 % Hz.		
7	Output Sound Pressure	83 ± 3 db/ 1.0 Watt • 0.5 Meter		
_	Level (S.P.L.)	Average at 1000, 1180, 1500, 1800 Hz.		
8.	Frequency Range	FO ~ 20000 Hz. Average SPL – 10 db.		
9.	Distortion	5 % Maximum At 1500 Hz. 0.1 W.		
10	Abnormal Sound test	Must be Normal Tested By 3.10 Volts. Sine Wave.		
11	Load Test	Pink noise with HPF(High Pass Filter 235HZ-3db-11db/Oct)3.10Volts(RMS.)96hrs		
12	Polarity	Diaphragm shall move Forward while Apply a Positive DC Signal to the " + " or " Marked " Terminal.		
Abov	ve Measuring condition under t	temperature : 15~35 $^\circ\!$ C R.H. 25 ~75%. According to standard GB/T9396-1996		
Mec	hanical and vibration test			
13	High Temperature	+85 ± 3 °C Humidity Random for 96 Hours. (GB2423.2-81)		
14	Low Temperature	- 40 ± 3 °C Humidity Random for96 Hours. (GB2423.1-81)		
15	Humidity	+ 40 ± 3 °C Relative Humidity (RH) 90 ~ 95 % 96 Hours. (GB5170.18-87)		
16	Vibration	Frequency 30 \pm 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)			
Afte	er test leave speakers at room	temperature for 1 hour, SPL shall not deviate by \pm 3 db from pre-test		
18	Temperature Cycle test	– 40 ~ + 85 °C 4 Cycles Temperature test. (GB5170.18-87)		
	r test leave speakers at room to surement, and meet above spe	emperature for 1 hour, SPL shall not deviate by \pm 3 db from pre-test ec. item 6. 7. 8. 9. 10.		
		Please refer to next pages for more detailed testing method.		

Test method and User precaution.

- 1. Characteristics measured according to standard GB/T 9396-1996
 - 1.1 Except other specified, measuring are under Temperature 15~35 $^\circ\!\!\mathbb{C}$ R.H. 25 ~75%
 - 1.2. Judgement condition Temperature 20 ±2 R.H. 63~67%
 - 1.3 Product shelf life is valid for 12 months only.
- 2. Output Sound Pressure Level (S.P.L.) and distortion testing setup



390*265*245 cm Chamber F

- 3. Environment & Mechanical test:
 - 3.1 High Temperature: GB2423.2-81

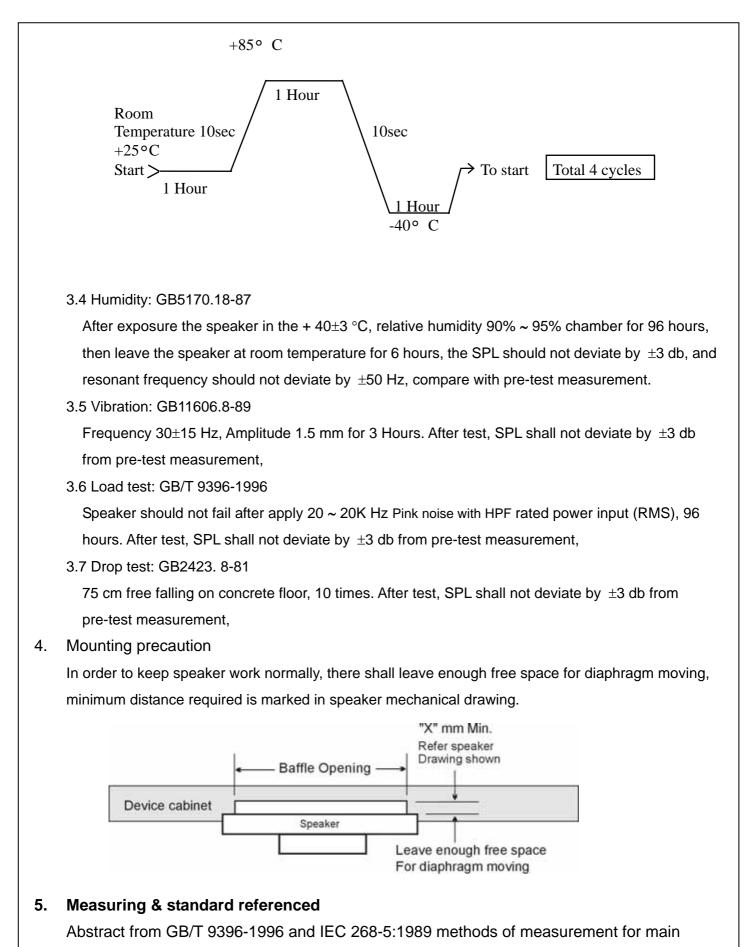
After exposure the speaker in the + 85 \pm 3 °C chamber for96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by \pm 3 db, and resonant frequency should not deviate by \pm 50 Hz, compare with pre-test measurement.

3.2 Low Temperature: GB2423.1-81

After exposure the speaker in the -40 ± 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.

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 3 db, and resonant frequency should not deviate by \pm 80 Hz, compare with pre-test measurement.



characteristics of loud speakers.

5.1 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.

5.2 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 rated sin voltage, R indicates the rated impedance.

5.3 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.

VECO Part NO: P16CR08G-9 Measurement Condition: VOL:2.83V[1W] DIS:0.5M

