

Specification

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品名 (Product Name)	揚聲器 (Speaker)
料號 (Model No.)	P32KUG08XNT-W

	Revision History			
Version	Date	Description	Author	
00	2015/11/26	Preliminary	LHN	
01	2016/08/24	修正防水等級	LHN	
02	2017/03/15	修正印章内容	LHN	
03	2017/10/11	修改錦絲線焊點位置	LHN	

核準 (Approval)	高紅華	2017/10/11
審查 (Check)	曾憲財	2017/10/11
設計(Designer)	王麗紅	2017/10/11
制作 (Author)	劉紅妮	2017/10/11

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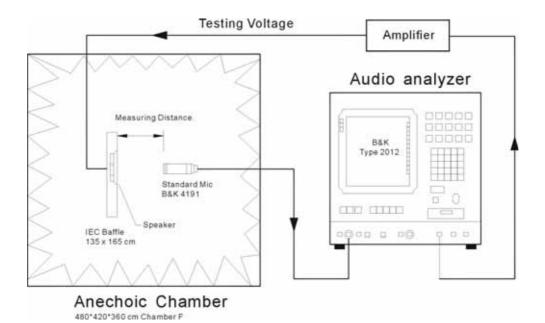
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	MODEL:	P32KUG08XNT-W	
2	Dimension & Weight	Outer Diameter 31.7X31.7 mm	
		At least 2mm for diaphragm moving	
		Height Refer to drawing Weight 16.6 Grams	
3	Magnet	Materials Rare Earth Size #12.8*3.5 mm	
4.	DC Resistance	8 $\Omega \pm 15$ %, On OHM Meter	
5.	Power Rating	Normal 3.0 Watts Maximum 4.0 Watts Sine	
		Normal Watts Maximum Watts Square	
6.	Resonant Frequency	200 ± 20 % Hz.	
7.	Output Sound Pressure	85 ± 3 db 1.0 Watt • 0.5 Meter	
	Level (S.P.L.)	Average at 600 800 1000 1200 Hz.	
8.	Frequency Range	F0 ~ 20000 Hz. Average SPL – 10 db.	
9.	Distortion	5 % Maximum At 1000 Hz. 1.0 Watt • 0.5 Meter	
10	Abnormal Sound test	Must be Normal Tested By 4.9 Volts. Sine Wave.	
11	Load Test	Pink noise with HPF(High Pass Filter 235HZ-3db/Oct) 4.9 Volts. (RMS.) 96 Hours.	
12	Waterproof Level	IPX5	
13	Polarity	Diaphragm shall move Forward while Apply a Positive DC Signal to the " + " or " Marked " Terminal.	
Abc	bve Measuring condition under	r temperature : 15~35 $^\circ C$ R.H. 25 ~75%. According to standard GB/T12060.5-2011	
Ме	Mechanical and vibration test		
13	High Temperature	+ 85 ± 2 °C Humidity Random for 96 Hours. (GB2423.2-81)	
14	Low Temperature	$-40 \pm 2 \circ C$ Humidity Random for 96 Hours. (GB2423.1-81)	
15	Humidity	+ 40 \pm 2 °C Relative Humidity (RH) 90 ~ 95 % 96 Hours.	
15 16	Humidity Vibration	+ 40 ± 2 °C Relative Humidity (RH) 90 ~ 95 % 96 Hours. Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 Hours. (GB11606.8-89)	
16 17	Vibration Drop test	Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 Hours. (GB11606.8-89)	
16 17 Af	Vibration Drop test	Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 Hours. (GB11606.8-89)75 CM free falling on Concrete floor, 10 times. (GB2423. 8-81)n temperature for 1 hour, SPL shall not deviate by ± 3 db from pre-test	
16 17 Af	Vibration Drop test ter test leave speakers at roon	Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 Hours. (GB11606.8-89)75 CM free falling on Concrete floor, 10 times. (GB2423. 8-81)n temperature for 1 hour, SPL shall not deviate by ± 3 db from pre-test	
16 17 Aft 18 Afte	Vibration Drop test ter test leave speakers at roon easurement, and meet above s Temperature Cycle test er test leave speakers at room	Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 Hours. (GB11606.8-89) 75 CM free falling on Concrete floor, 10 times. (GB2423. 8-81) n temperature for 1 hour, SPL shall not deviate by ± 3 db from pre-test spec. item 6. 7. 8. 9. 10.	

Test method and User precaution.

- 1. Characteristics measured according to standard GB/T12060.5-2011
 - 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



3. Environment & Mechanical test:

3.1 High Temperature: GB2423.2-81

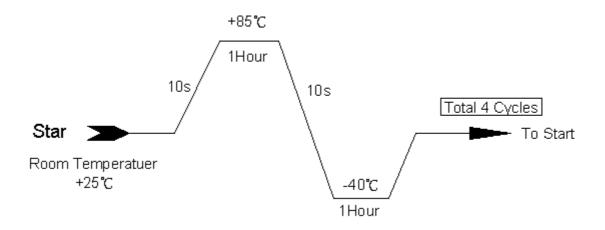
After exposure the speaker in the + 85 ± 2 °C chamber for 96 hours, then leave the speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 db, and resonant frequency should not deviate by ± 50 Hz, compare with pre-test measurement.

3.2 Low Temperature: GB2423.1-81

After exposure the speaker in the -40 ± 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/T12060.5-2011

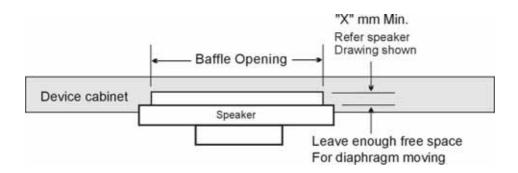
Speaker should not fail after apply 20 ~ 20K Hz pink noise with HPF rated power input (RMS), 96 hours. After test, SPL shall not deviate by ± 3 db from pre-test measurement,

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/T12060.5-2011 and IEC 60268-5:2007 methods of measurement for main 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.

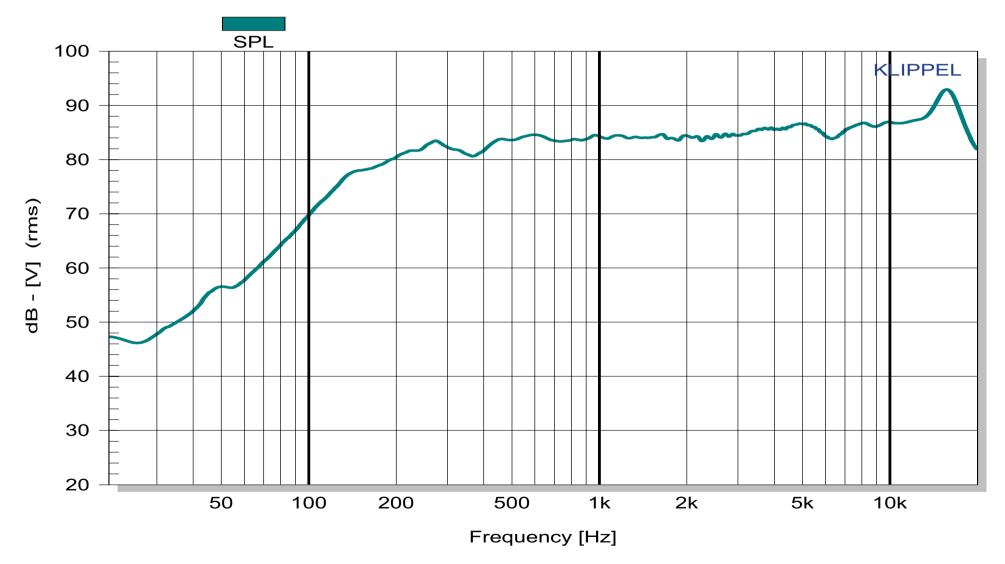
The rated sine power is corresponding with the rated sine voltage, its definition is U_s^2/R , Us indicates the maximum sin voltage, R indicates the rated impedance.

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.



P32KUG08XNT-W VOL: 2.83V(1W) DIS: 0.5M



Test date: 09/12/31 time: 09:15 Username

