



International Components Corporation

215 McCormick Drive, Bohemia, NY 11716

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1.	MODEL:	SR55X10VN-2W	
2	Dimension & Weight	Outer Diameter	25*14 mm
		Baffle Opening	23.7*13.1 mm
		Height	Refer to drawing
		Weight	2.9 Grams
3	Magnet	Materials	Rare Earth Size ϕ 8.1*2.3 mm
4.	DC Resistance	8 $\Omega \pm 15\%$,	On OHM Meter
5.	Power Rating	Normal	2.0 Watts Maximum 2.5 Watts Sine Wave.
		Normal	Watts Maximum Watts Square Wave.
6.	Resonant Frequency	700 $\pm 20\%$ Hz.	
7.	Output Sound Pressure Level (S.P.L.)	79 ± 3 db/ 1.0 Watt. 0.5 Meter	
		Average at 800, 1000, 1200, 1500 Hz.	
8.	Frequency Range	FO \sim 18000 Hz. Average SPL - 10 db.	
9.	Distortion	5 % Maximum At 1000 Hz. 1.0 W.	
10	Abnormal Sound test	Must be Normal Tested By 4.0 Volts. Sine Wave.	
11	Load Test	Pink Noise+ HPF (High Pass Filter 235HZ-3db/Oct) 4.0 Volts.96 Hours. Quantity:10 pcs	
12	Polarity	Diaphragm shall move Forward while Apply a Positive DC Signal to the "+" or "Marked" Terminal.	

Above Measuring condition under temperature: 15~35°C R.H. 25 ~75%. According to standard GB/T9396-1996

Mechanical and vibration test: Quantity:10 pcs

13	High Temperature	+ 60 \pm 2 °C Humidity (RH) 25 ~ 75 % 96 Hours.
14	Low Temperature	- 25 \pm 2 °C Humidity (RH) 25 ~ 75 % 96 Hours.
15	Humidity	+ 40 \pm 2 °C Relative Humidity (RH) 90 ~ 95 % 96 Hours. (GB5170.18-87)
16	Vibration	Frequency 30 \pm 15 Hz, Amplitude 1.5 mm 3 Hours.in each of 3 axes(X,Y,Z)
17	Drop test	75 CM free falling on Concrete floor, 10 times. (each face and corner)

After test leave speakers at room temperature for 1 hour, SPL shall not deviate by ± 3 db from pre-test Measurement, and meet above spec. item 6. 7. 8. 9. 10.

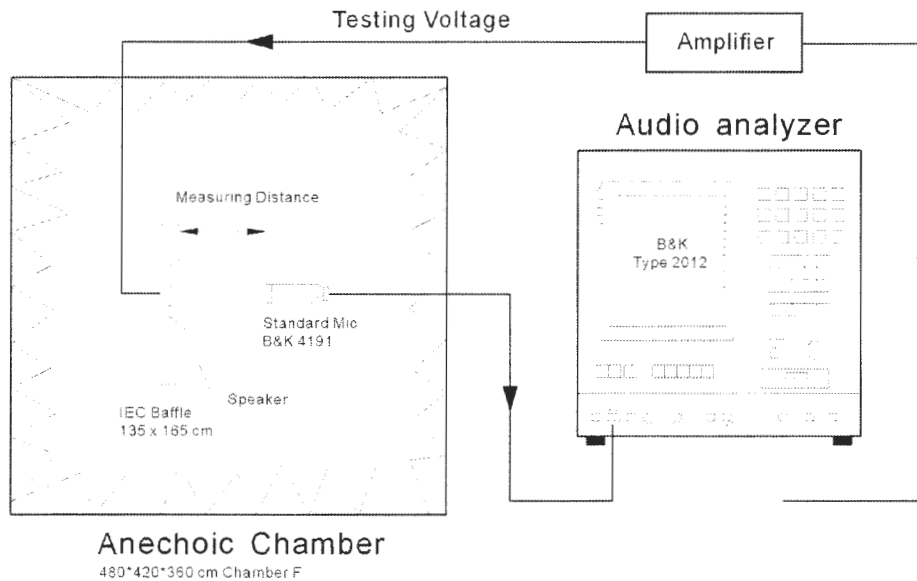
18	Temperature Cycle test	- 25 ~ + 60 °C (1hour 1hour 1hour=1 Cycles) 4 Cycles Temperature tests.
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After test leave speakers at room temperature for 1 hour, SPL shall not deviate by ± 3 db from pre-test Measurement, and meet above spec. item 6. 7. 8. 9. 10.

Please refer to next pages for more detailed testing method.

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°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:

After exposure the speaker in the + 60 ± 2 °C (RH) 25 ~ 75 % chamber for 96 hours, Quantity:10 pcs. 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.

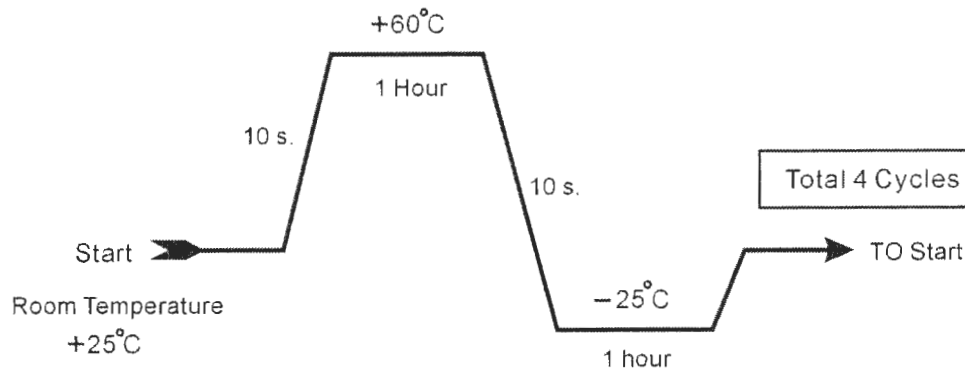
3.2 Low Temperature:

After exposure the speaker in the -25 ± 2 °C (RH) 25 ~ 75 % chamber for 96 hours, Quantity:10 pcs. 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:

After exposure the speaker in the chamber, - 25 ~ + 60 °C (1hour 1hour 1hour=1 Cycles) 4 Cycles Temperature tests. Quantity:10 pcs. temperature cycle setting as below shows, SPL should not deviate by ± 3 db, and resonant frequency should not deviate by ± 80 Hz, compare

with pre-test measurement.



3.4 Humidity:

After exposure the speaker in the + 40±2 °C, relative humidity 90% ~ 95% chamber for 96 hours, Quantity:10 pcs. 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:

Frequency 30±15 Hz, Amplitude 1.5 mm for 3 Hours. in each of 3 axes(X,Y,Z)
Quantity:10 pcs.After test, SPL shall not deviate by ±3 db from pre-test measurement,

3.6 Load test:

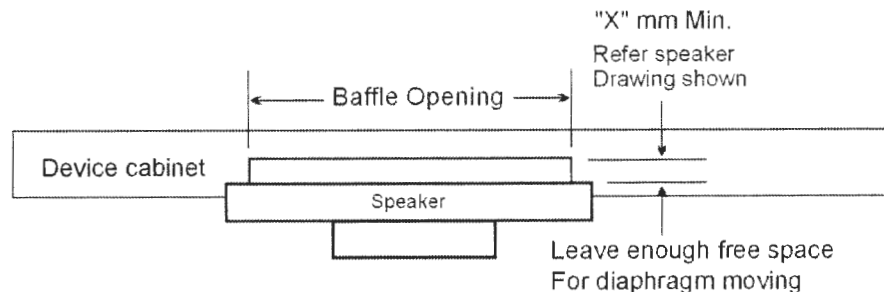
Speaker should not fail after apply 20 ~ 20K Hz Pink noise +HPF rated power input (RMS), 96 hours. Quantity:10 pcs. After test, SPL shall not deviate by ±3 db from pre-test measurement,

3.7 Drop test:

One carton speakers from 75 cm free falling on concrete floor, 10 times. (each face and corner) . After test, SPL shall not deviate by ±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 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 , U_s 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 , U_n indicates the rated noise voltage, R indicates the rated impedance.



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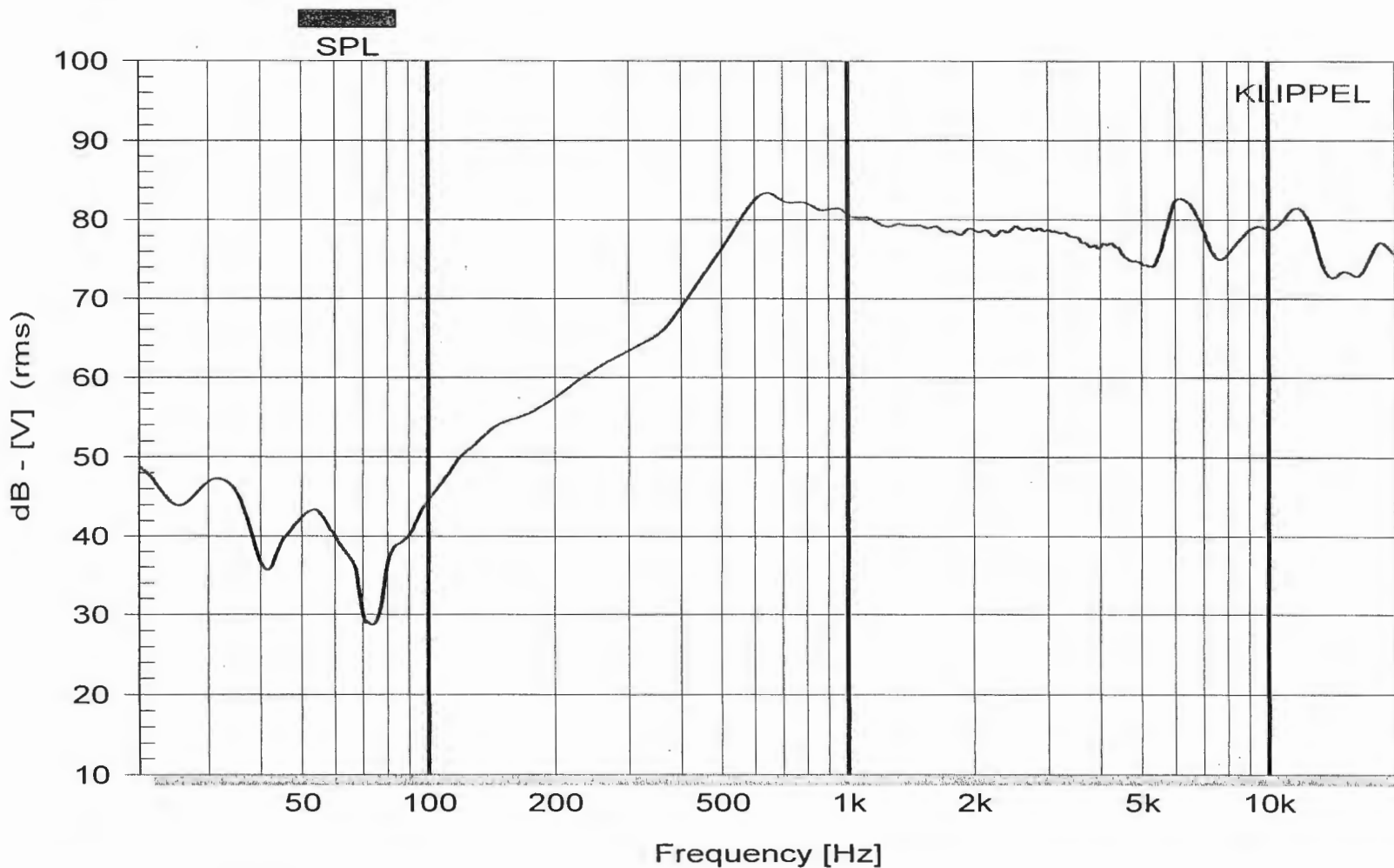
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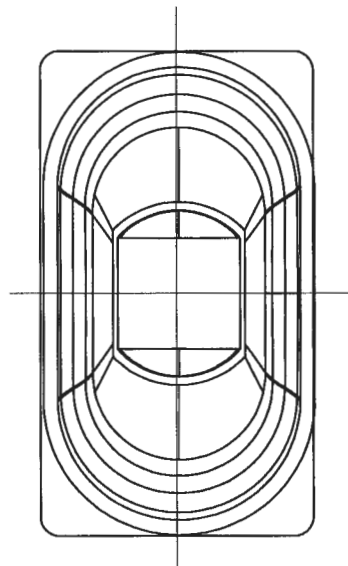
Measurement Condition:

VOL : 2.83V [1.0W] DIS : 0.5M

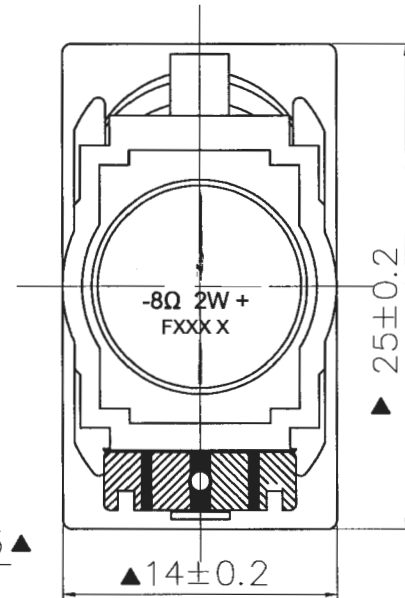
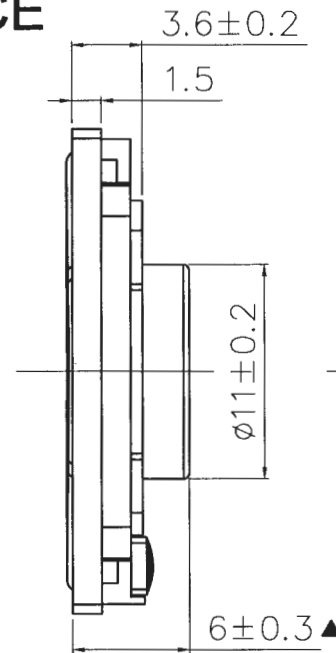
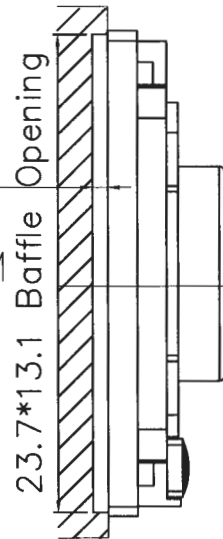


不准使用鎳利
電子禁止使用的
環境管理物質

MOUNTING NOTICE



AT LEAST
1mm
FOR
DIAPHRAGM
MOVING



RANGE	TOL			
0-8	±0.05	±0.10	±0.20	±0.30
8-16	±0.10	±0.15	±0.25	±0.40
16-24	±0.15	±0.20	±0.30	±0.50
24-50	±0.20	±0.25	±0.40	±1.0
50-100	±0.25	±0.30	±0.50	±2
>100	±0.40	±0.40	±0.80	±3

V1.0		10.06.11		
VERSION	DATE	DESCRIPTION		
Unit:	mm	Scale:	Appr.:	
Tol.:			CHK.:	Dwg.: 溫遠紅

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