VersionNo:061024.02

APPROVAL SHEET
FOR
SPEAKER

納 入 仕 様 書

CUSTOMER: _____

SUNWAY P/N: SM1712S109L32

CUSTOMER P/N: _____

CUSTOMER	APPROVER	CHECKER
	ENG.DEPT 芮建刚	ENG.DEPT 苗秋香

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聲惠電子 SUNWAY Shenghui Electronic

C O N T E N T S

				Date	2006-10-24	聲惠電子 SUNWAY Shenghui Electronic
				Des.	Q.X.M	
				Chk.		
				Apr.	J.G.R	
Issue	Note	Date	Name	SM1712S109L32		061024.02

DATE	MARKING	REVISION RECORD	DESIGNER	REMARK

1. Part Number: SM1712S109L32

2. Type: Dynamic Speaker

3. Dimension:17*12mm*2.8H

4.Weight: 1.50g

5. Electrical And Acoustical Characteristics (at 20℃)

5.1. Speaker Part:

5.1.1 Sound Pressure Level : 86±3dB SPL (at 0.1w,0.1m 0.8,1.0,1.2,1.5kHz average)

5.1.2 Rated Power Input:

Nominal Power : 0.5W

Maximum Power : 1.0W

5.1.3 Rated Impedance : 8±15%Ω

5.1.4 Resonance Frequency : 900±20%Hz (at 1.0V)

5.1.5 Test method :

The Speaker shall be mounted in a baffle described in the Fig.1,and tested with 0.89V(0.1W);
The measuring microphone shall be placed 10cm from the speaker in an anechoic chamber.

5.1.6.Block Diagram For Measurement Method.

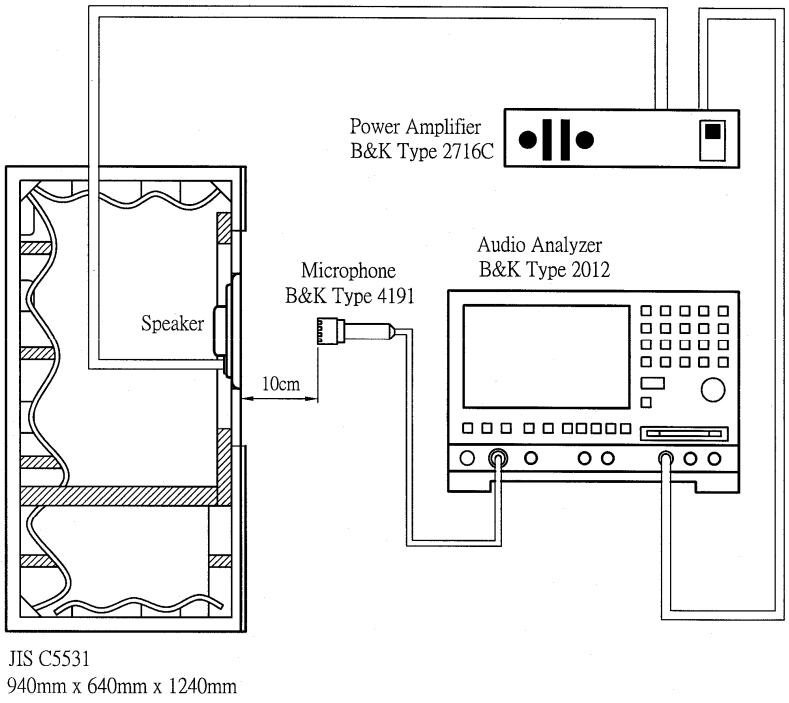


FIG.1 (Speaker Measurement Method)

5.1.7.**Frequency Response :**

The swept sine-wave frequency response of a loudspeaker should ideally not deviate more than indicated per Fig.2

At 0.1m 0.1W

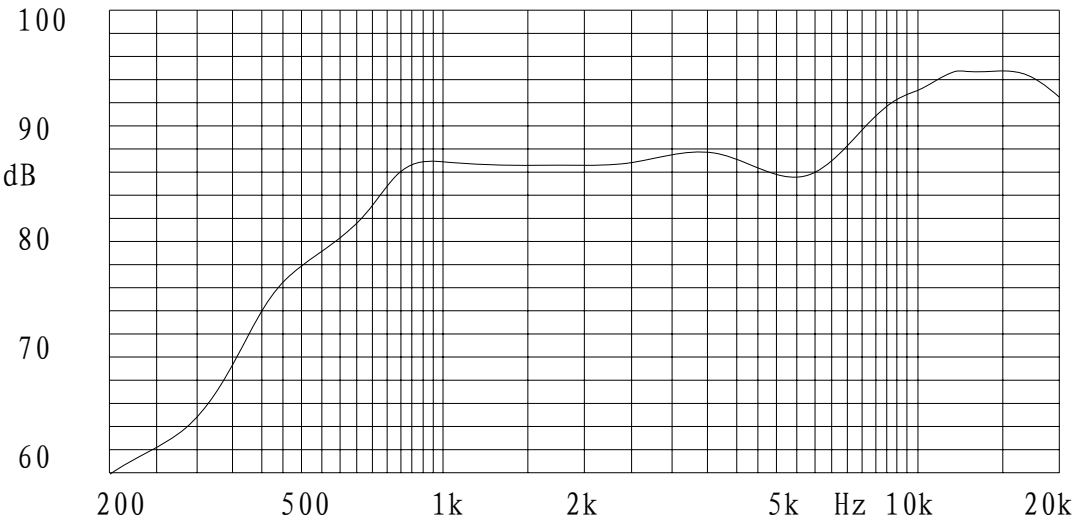


FIG.2(Loud speaker Typical Frequency Response)

6.Mechanical and Environment Characteristics

Being placed（6.1-6.5） for 6 hours at +25℃, receiver shall be measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc.

Should not be audible at 2.8V, sine wave between Fo~20KHzKHz. S.P.L.

deviation of unit should be within ±3dB

6.1 HIGH TEMPERATURE TEST

TEMPERATURE :+80℃

DURATION :96hours

6.2 LOW TEMPERATURE TEST

TEMPERATURE :-40℃

DURATION :96hours

6.3 TEMPERATURE CYCLE TEST

TEMPERATURE :-20℃ +85℃

DURATION :2hours 2hours

CYCLE :5 cycles

6.4 HUMIDITY TEST

TEMPERATURE : +40℃

DURATION :90%(RH)

CYCLE :96hours

6.5 LOAD TEST

NOISE :white noise

DURATION :96hours

INPUT POWER :0.5W

(6.6-6.7)No obstacle to be harmful to normal operation; damages, cracks, rusts and distortions.

Should not be audible at 2.8V, sine wave between Fo~20KHzKHz. S.P.L. deviation of unit should be within ±3dB

6.6 VIBRATION TEST

AFTER TEST,THE SENSITIVITY DIFFERENCE SHALL BE WITHIN ±3dB at 1.0KHZ,1.2KHz,1.5KHz,2.0KHzAVERAGE

VIBRATION :10~55Hz/min

AMPLITUDE :1.5mm

DURATION :1hour in each of 3 axes

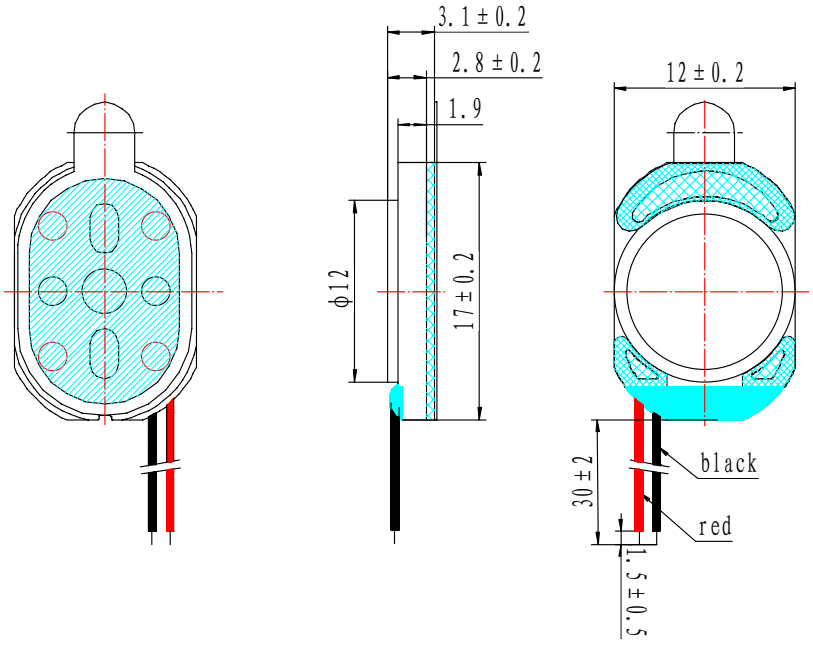
6.7 DROP TEST(under the unit)

AFTER TEST,THE SENSITIVITY DIFFERENCE SHALL BE WITHIN ±3dB at 1.0KHZ,1.2KHz,1.5KHz,2.0KHzAVERAGE

HEIGH :1.m

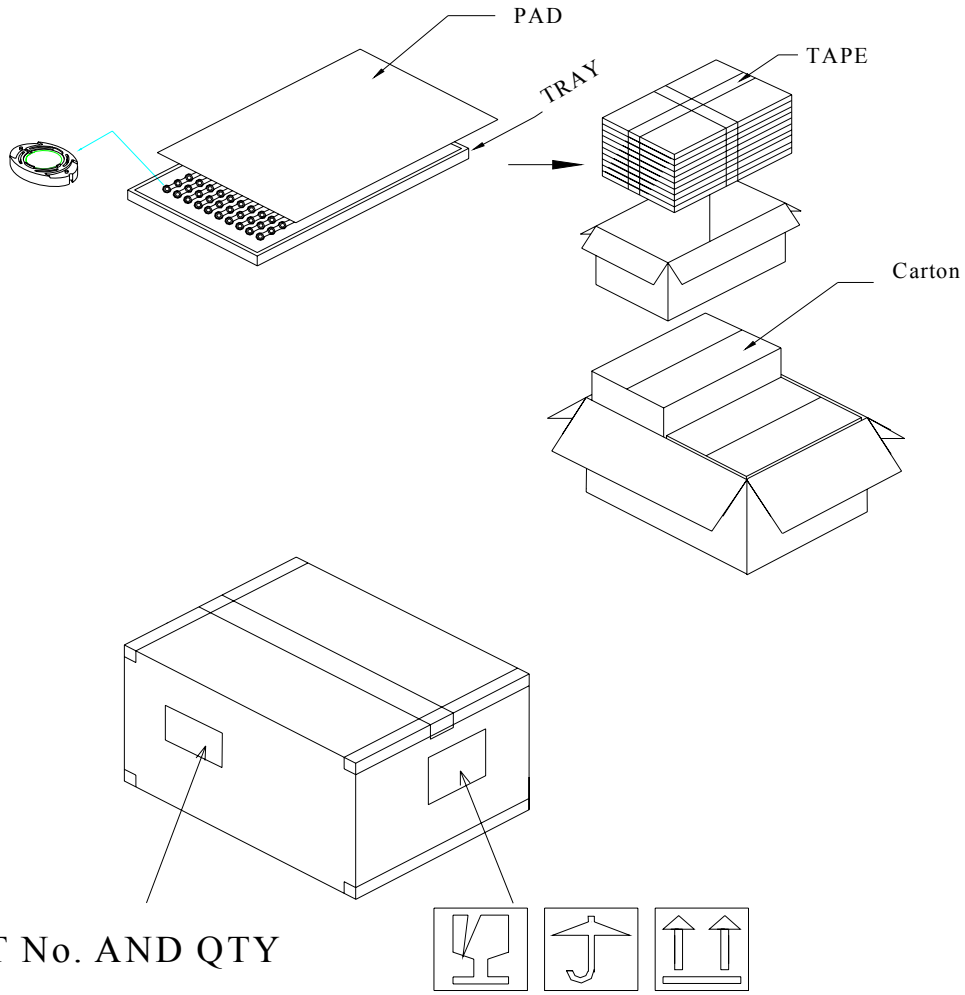
CYCLES :10cycles

7. MECHANICAL DRAWING



NO.	Part Name	Q*ty	Type of Material	Treatment	Remark
6	Front cover	1	SUS304		
5	PCB	1			
4	FRAME	1	PPS		
3	Inner pole plate	1	Fe	φ5.4*0.3	
2	MAGNET	1	Ne-Fe-B	φ5.3*0.8	
1	DIAPHRAGM	1	PEI	16.9*11.9	

8.Package



Item \ Package	Small box	Internal box	External case
Size	30.55x 22 x 13	30.55x 22 x 13	49 x 35 x17.5
Material	PVC Tray	Paper box	paper board
Quantity	100 pcs/box	1000 pcs/bag	2000 pcs/case
G. Weight	150 g	1.5Kg	3 .0Kg