

Loudspeaker 52 x 28 mm

CC52S28DN8G

Revision

Date	Version	Status	Changes	Approver
2017/08/01	V0.1	Draft	First release	LC

1. Condition

Test and measurement will be carried out under normal condition of temperature within 5°C to 35°C, relative humidity within 45% to 85% and air pressure of 860 mbar to 1060 mbar.

Should uncertainly arise in data obtained from the above atmosphere, control of temperature at 20°C±2°C and relative humidity within 60% and 70%, with air pressure remaining un-changed, to be enforced.

2. Electrical and acoustical specification

2-1	Rated Input Power.	2.0W		
2-2	Max Input Power.	3.0W		
2-3	Rated Impedance.	$8\Omega \pm 15\%$		
2-4	Sound Pressure Level.	84±3dB		
	(S.P.L)	(AT 2.83V/1M , Average of 0.8, 1.0, 1.2, 1.5 KHz)		
2-5	Resonance Frequency (Fo). 160±20%Hz			
2-6	Frequency Range.	F0~15kHz.		
2-7	Distortion	Less than 5% at 1KHz		
2-8	Magnet	Rare earth permanent (NdFeB)		
		magnetΦ15*5+Φ12.5*2.5, mm		
2-9	Buzz, Rattle, etc. Should not be audible at 4V sine Wave between Fo to 15			
2-10	Polarity When positive voltage is applied to the terminal marked diaphragm should move to the front.			
2-11	Appearance	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.		
2-12	Weight.	40g ±8%		
2-13	Temperature	Operating temperature: -20°C to +60°C Storage temperature: -30°C to +70°C		

3. Measuring method

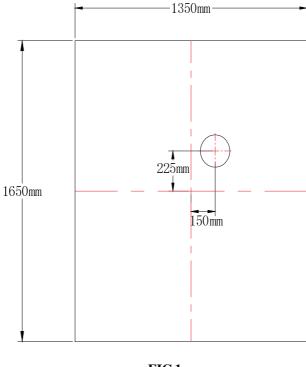


FIG.1

3.1 Block Diagram For Measurement Method.

Standard test condition of speaker

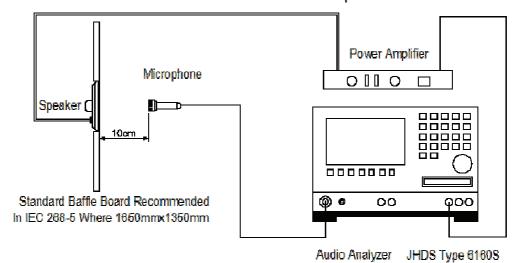


FIG.2

4. Frequency Response

The swept sine-wave frequency response of a Loud speaker should ideally not deviate more than indicated per Fig.3

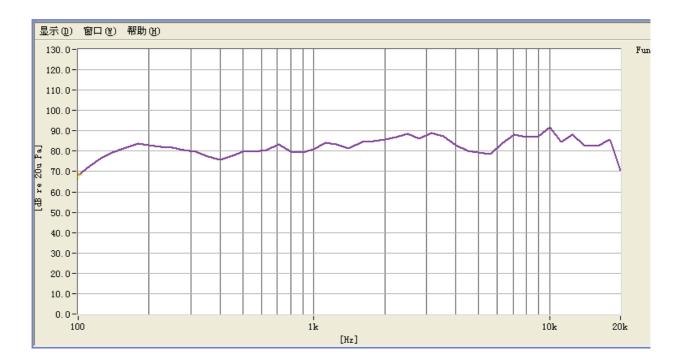


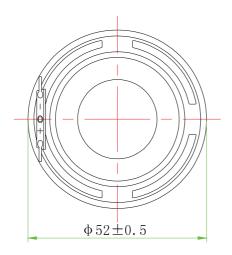
FIG.3

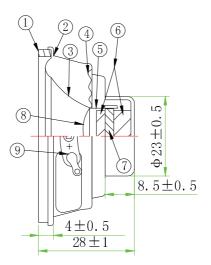
5. Environment test

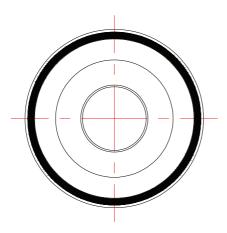
ITEM		SPECIFICATIONS					
01	High temp. Test	Keep 96 hours at +70°C±3°C and leave 3 hours in normal temperature and then check					
02	Low temp. Test	Keep 96 hours at -30°C±3°C and leave 3 hours in normal temperature and then check					
03	Humidity test	Keep 96 hours at + 40°C±3°C relative humidity 92-95% and leave 3 hours in normal temperature and then checked.					
04	Temp./Humidity cycle	The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of; 90 ~ 95 % RH 65°C 9.5hr 65°C 9.5hr 65°C 9.5hr 65°C 9.5hr 65°C 9.5hr 65°C 9.5hr 9.5hr 9.5hr 9.5hr					
05	Thermal cycle test.	Low temperature: -30°C±3°C, temperature:+70°C±3°C, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.					
06	Vibration	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.					
07	Fix drop test	Fix on jig. Then drop from 152cm height to the concrete floor X,y, z 6 direction. 5 times each, total 30 times.					
08	Free drop test	Free drop from 100cm height to the concrete floor X,Y, Z 6 direction. 1 times each, total 6 times.					
09	Load test	Rated Power White noise is applied for 96 hours					
10	Max Power test	Max power 1 min. on - 2 min. off 10 cycles.					
11	Terminal strength test	Capable of withstand 1kg load for 30 seconds without resulting in any damage or rejection.					
Criter	rion:						

After these test, the change of S.P.L shall be within ±3 dB

6. Dimensions



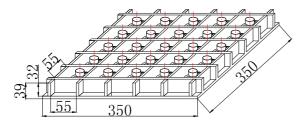




	T	ı		Г					
8	CAP	1	Paper						
7	Gasket	1	Paper						
6	Diaphragm	1	Foam+Paper						
5	VOICE COIL	1	KSV+Cu						
4	Plate	1	SPCC						
3	Magnet	1	NdFeB						
2	PCB Terminal	1	Paper+meter						
1	Frame	1	Spcc						
The material must be meet to GU-001									
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK					

Unit:mm Tol:±0.5

7. Packing



1.Each clapboard 25pcs, Each carton 10 clapboards, 250pcs/carton

N.W:10 KG, G.W:12 KG

2.Corrugated paper: 350*350mm 2 pcs 3.Carton size:370*370*425mm 1 pcs

