

Dynamic loudspeaker 40×18 mm With wires

CC40W18DN4G

Revision

Date	Version	Status	Changes	Approver
2017/07/04	V0.1	Draft	First release	LC
2020/7/28	V0.2	Draft	Update testing condition & curves	AX

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 $20\% \pm 2\%$ and relative humidity within 60% and 70%, with air pressure remaining unchanged, to be enforced.

2. ELECTRICAL AND ACOUSTICAL SPECIFICATION.

2-1	Rated Input Power.	3.0W	
2-2	Max Input Power.	4.0 W	
2-3	Rated Impedance.	$4\Omega \pm 15\%$	
2-4	Sound Pressure Level. (S.P.L)	96dB(1.0W/0.1m) ± 3 dB at AVE 0.8K 1.0K 1.2K 1.5K Hz	
2-5	Resonance Frequency (Fo).	300± 20% Hz	
2-6	Frequency Range.	F0~ 10 kHz.	
2-7	Distortion	Less than 10% at 1KHz input 1W 0.5m	
2-8	Magnet	Rare earth permanent (NdFeB) magnet \$\phi\$ 12*2.0mm	
2-9	Buzz, Rattle, etc.	Should not be audible at 3.46V sine Wave between Fo to 20KHz	
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.	~17.8g	
2-13	Temperature	Operating temperature: -20°C to +60°C Storage temperature: -30°C to +70°C	

3. MEASURING METHOD

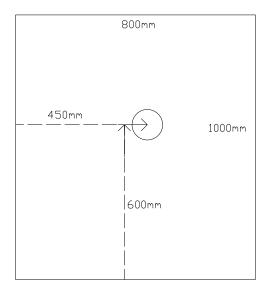
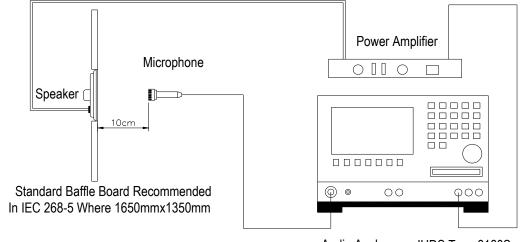


FIG.1

3. 1Block Diagram For Measurement Method.

Standard test condition of speaker

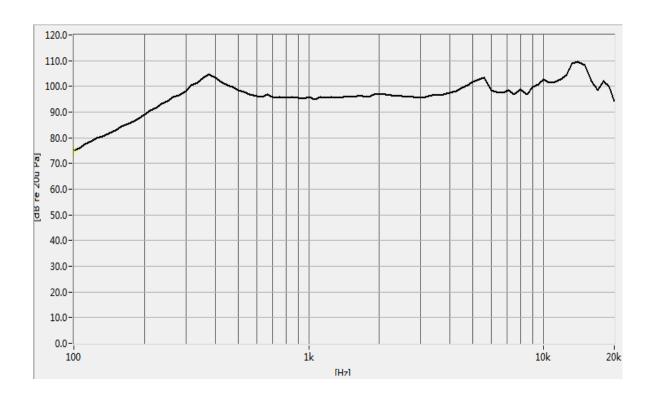


Audio Analyzer JHDS Type 6160S

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



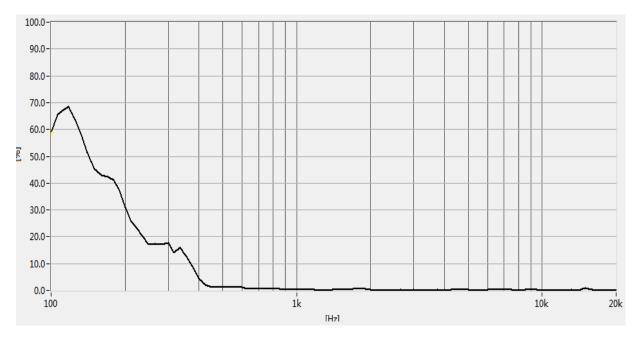


FIG.3

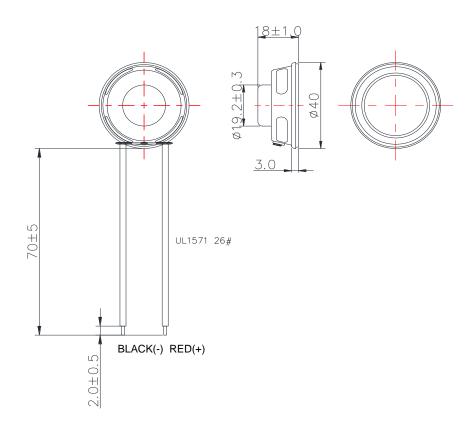
5. ENVIRONMENT TEST

ITEM		SPECIFICATIONS		
01	High temp. Test	Keep 96 hours at $+60^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 6 hours in normal temperature and then check		
02	Low temp. Test	Keep 96 hours at -20 °C \pm 3 °C and leave 6 hours in normal temperature and then check		
03	Humidity test	Keep 96 hours at $+30^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 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 6 hours and consist of; 90 ~ 95 % RH 65°C 0.5hr 0.5hr 5hrs		
05	Vibration	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.		
06	drop test	Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm		
07	Load test	Rate Power Pink noise is applied for 24 hours at room temp		
08	Lead Wire Pull Strength	The pull force shall be applied to double lead wire: Horizontal3.0N(0.306kg)for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds.		

Criterion :

After these test, the change of S.P.L shall be within $\pm 3 \, \mathrm{dB}$

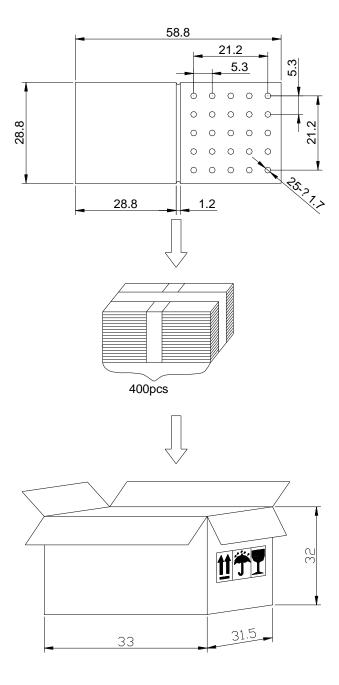
6.Dimensions



Unit:mm Tol:±0.5

7	Gasket	1	Paper					
6	Diaphragm	1	Paper+PU					
5	VOICE COIL	1	Cu+paper					
4	Plate	1	SPCC					
3	Magnet	1	NdFeB					
2	PCB Terminal	1	EXPOR					
1	Frame	1	Spcc					
The material must be meet to GU-001								
PART NO. PART NAME		Q'TY	MATERIAL	REMARK				

7.PACKING



Remark:
25 pcs per tray
16 units per carton
Total:400 pcs per box

Size:33*31.5*32cm