Dynamic Loudspeaker

ϕ40×20 mm

With wire & connector

CC40C182DN4

Revision

Date	Version	Status	Changes	Approver
2023/11/3	V0.1	Draft	First release	AX

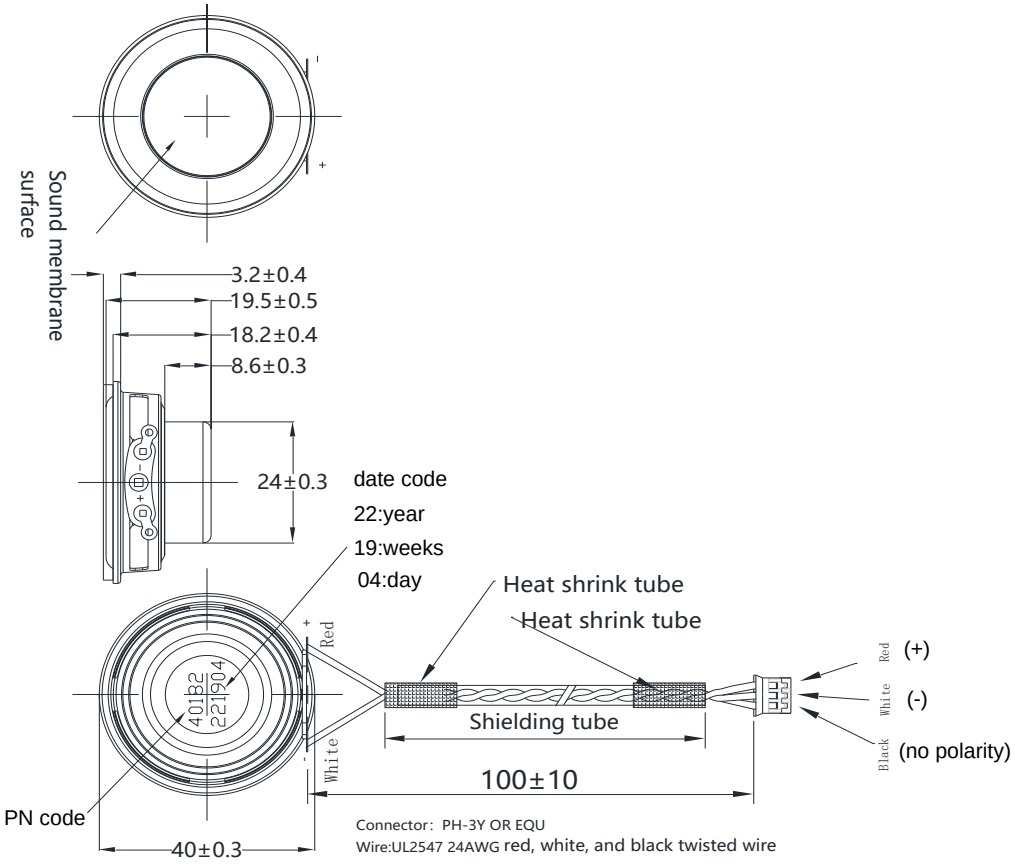
Parameter	Conditions/Description	Values	Units
Rated Input Power		3.0	W
Max Input Power		4.0	W
Impedance		4±15%	Ω
Sound Pressure Level (S.P.L.)	at 0.8K 1.0K 1.2K 1.5KHz in1.0W/1.0M average (0dB SPL=20μPa)	78±3	dB
Resonant Frequency (Fo)	at 1.0 V	170±20%	Hz
Frequency Range	Output S.P.L. -10dB	Fo~15K	Hz
Distortion	at 1K Hz, input 1.0W,	< 5%	-
Magnet	NdFeB		mm
Buzz, Rattle, etc.	must be normal at sine wave between Fo ~ 5K Hz	3.46	V
Polarity	cone will move forward with positive dc current to"+" terminal		
Weight		25g±8%	g
Operating Temperature		-25~+60	℃
Storage Temperature		-25~+60	℃
Waterproof		N/A	

Above Measuring condition under temperature : 15~35℃ R.H. 25 ~75%.86 kPa to 106 kPa (860 mbar to 1 060 mbar According to standard GB/T 9397—200X and IEC 60268-1

MECHANICAL DRAWING

Units: mm

Tolerance: ±0.5mm

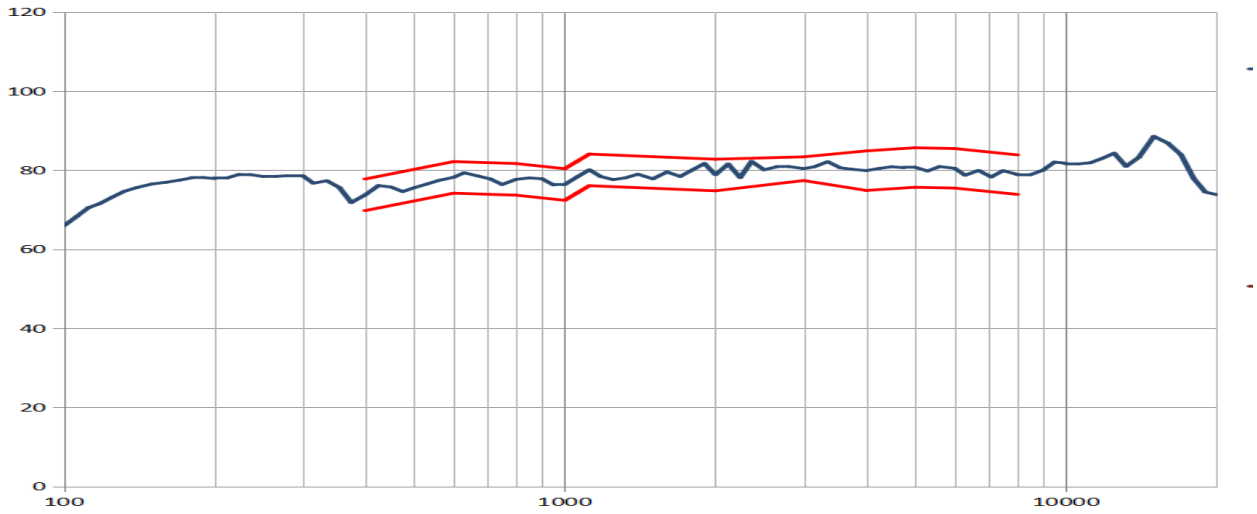


CONSTRUCTION DETAIL

NO	Component	Material
1	Frame	SPCC
2	Cone	rubber+ Paper
3	Damper	Cloth
4	Voice coil	KSV
5	Magnet	NdFeB
6	Plate	SPCC
7	Magnet	NdFeB
8	Dust cap	Pet
9	Terminals	Paper+steel
10	Electric wire	UL2547 24AWG

Frequency Response Curve

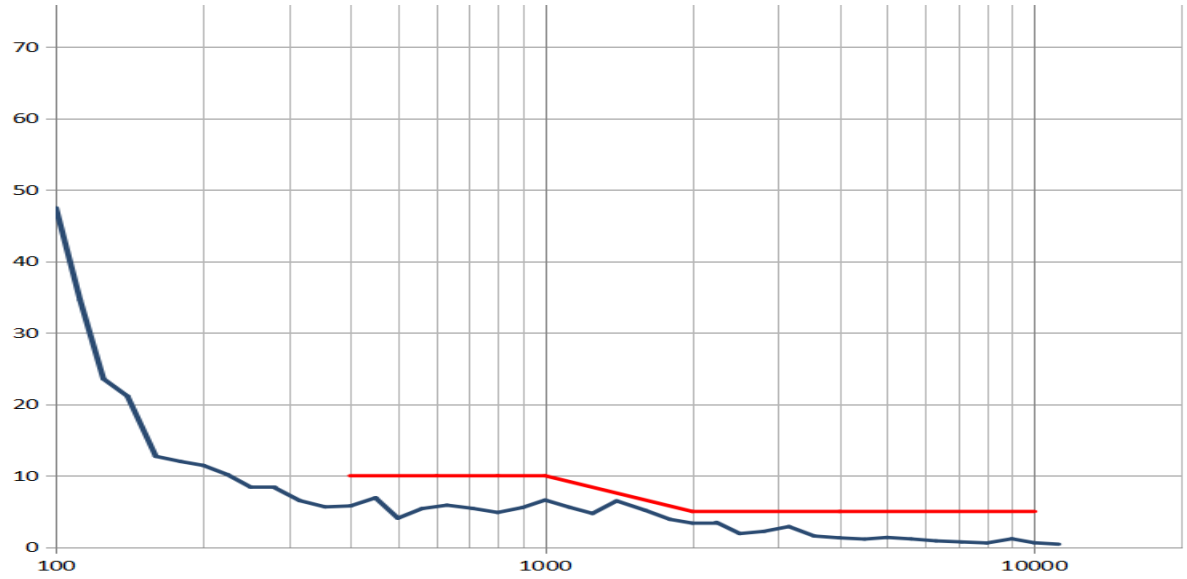
Test condition: 1.0W/1.0M,



频点	8000	6000	5000	4000	3000	2000	1120	1060	1000	800	600	400
UP	83.9	85.5	85.7	84.9	83.4	82.8	84.1	82.3	80.4	81.7	82.2	77.8
LOW	73.9	75.5	75.7	74.9	77.4	74.8	76.1	74.3	72.4	73.7	74.2	69.8

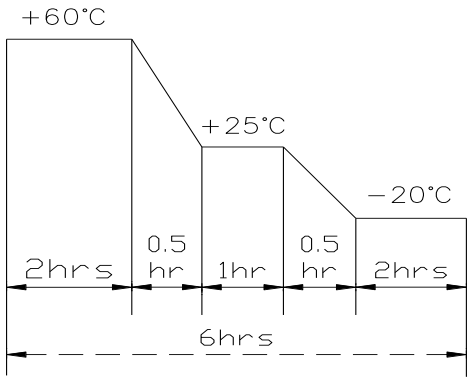
Total Harmonic Distortion Curve

Test condition: 1.0W/1.0M,



THD框线	400	600	800	1000	2000	4000	10000
UP	10	10	10	10	5	5	5
LOW							

RELIABLITY TEST

1	Reliability Test Performance	After any following test, parts should conform to original performance within ±3 dB tested with Rated Power, after 6 hours of recovery period.
2	High Temperature Operation and Storage	+ 60 ± 2 °C Humidity Random for 96 Hours. (GB/T 9397—200X)
3	Low Temperature Operation and Storage	− 25 ± 2 °C Humidity Random for 96 Hours. (GB/T 9397—200X)
4	Humidity Test	+40℃±2℃ Relative Humidity(RH)90~95% 48 Hours
5	Temp Cycle	The part shall be subjected 4cycles. One cycle shall be 6 hours and consist of (GB5170.18-87) 
6	Vibration Test	Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 Hours. (GB11606.8-89)
7	Drop Test	75 CM free falling on Concrete floor, 10 times. (GB2423. 8-81)
8	Load test	Must perform normal with program White-Noise source at Rated Power for 96 Hours(GB/T 9397—200X)
9	Termination Strength	Apply 3.0N(0.306kg) to each terminal in horizontal direction for 30 seconds; Apply 2.0N(0.204kg) to each terminal in vertical direction for 30 seconds;

MEASURING METHOD

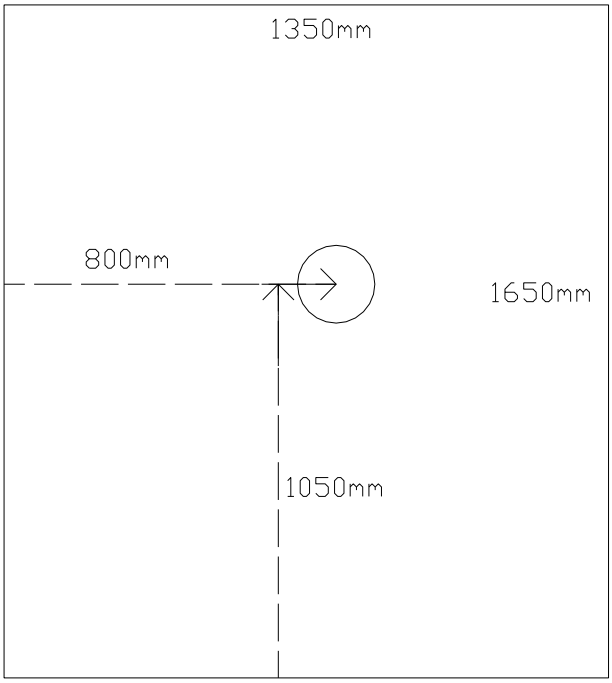
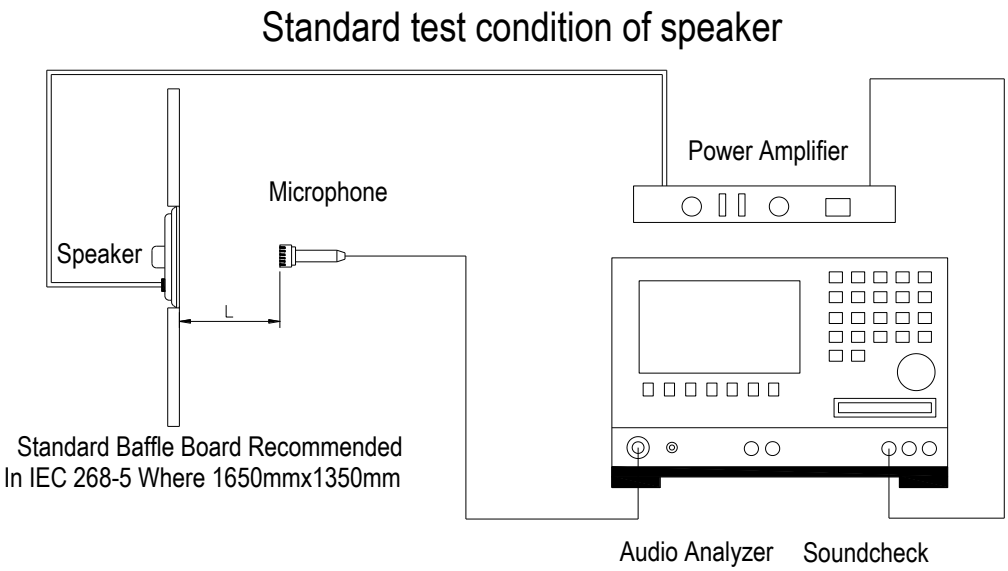


Fig. 1 Block Diagram for Measurement Method



L=100cm

Fig. 2 Speaker Test Condition

PACKAGING

Storage conditions:
Speakers should be well packed.
The temperature should be as stable as possible and between -10° C and +40° C.
The relative humidity should be below 90%.
There should be no acid or other harmful gases in the surrounding air (GB/T 9397—200X)
units: cm
Remark:

25 pcs per tray

8 units per carton

Total:200 pcs per box

Size:33.0*31.5*32cm