



Round loudspeaker

$\phi 45 \times 24.0\text{mm}$

CC45H240WN4

Revision

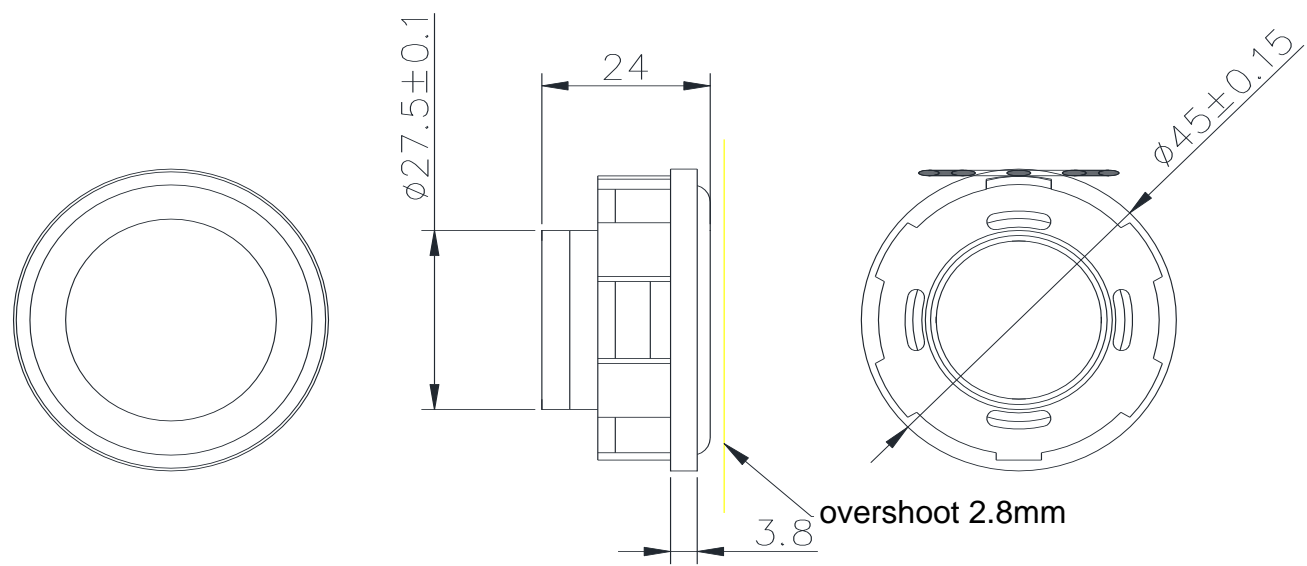
Date	Version	Status	Changes	Approver
2021/12/14	V0.1	Draft	First release	AX

Parameter	Conditions/Description	Values	Units
Rated Input Power		5.0	W
Max Input Power	IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp	6.0	W
Rated Impedance	at 2.0 kHz	4±15%	Ω
Sound Pressure Level (S.P.L.)	at 0.8K 1.0K 1.2K 1.5KHz in 5.0W/0.1M average (0dB SPL=20μPa)	108±3	dB
Resonant Frequency (Fo)	at 1.0 V	120±20%	Hz
Frequency Range	Output S.P.L. -10dB	Fo~20K	Hz
Distortion	at 1K Hz, input 1.0W,	< 5%	-
Magnet	NdFeB	Φ	mm
Buzz, Rattle, etc.	must be normal at sine wave between Fo ~ 5K Hz	4.47	V
Polarity	cone will move forward with positive dc current to "+" terminal		
Weight			g
Operating Temperature		-20~+60	°C
Storage Temperature		-30~+70	°C

Notes: All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

Units: mm
Tolerance: ±0.5mm



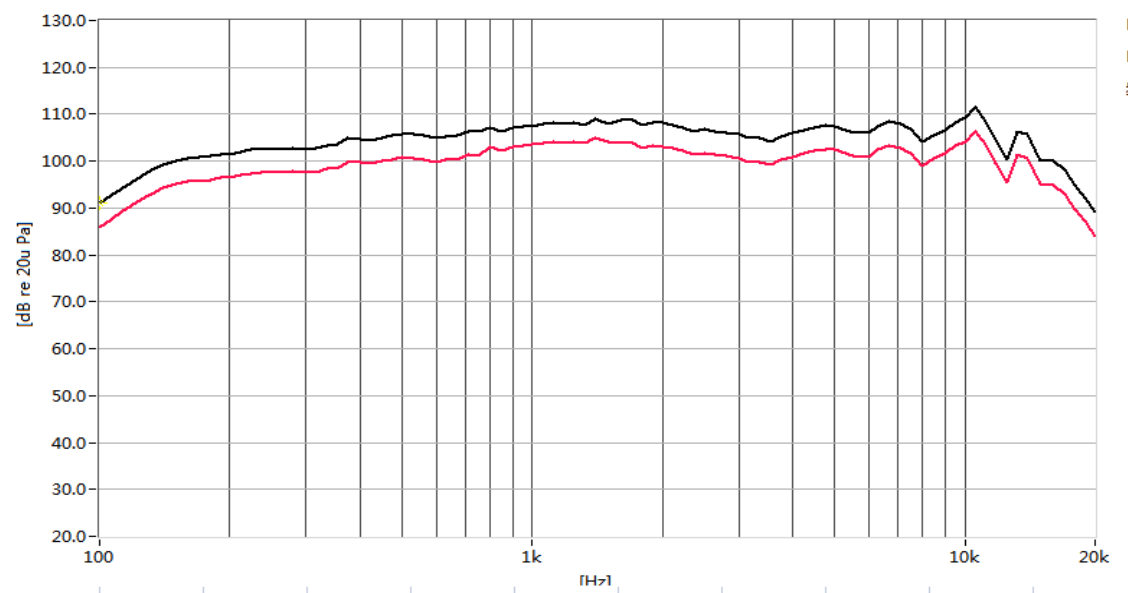
CONSTRUCTION DETAIL

PART NO.	PART NAME	Q'TY	MATERIAL	REMARK
1	CAP	1	Paper	
2	Diaphragm	1	RUBBER+Paper	
3	VOICE COIL	1	Paper Cu	
4	Plate	1	SPCC	
5	Magnet	1	NdFeB	
6	PCB Terminal	1	FR4	
7	Frame	1	PBT	

RESPONSE CURVES

Frequency Response Curve

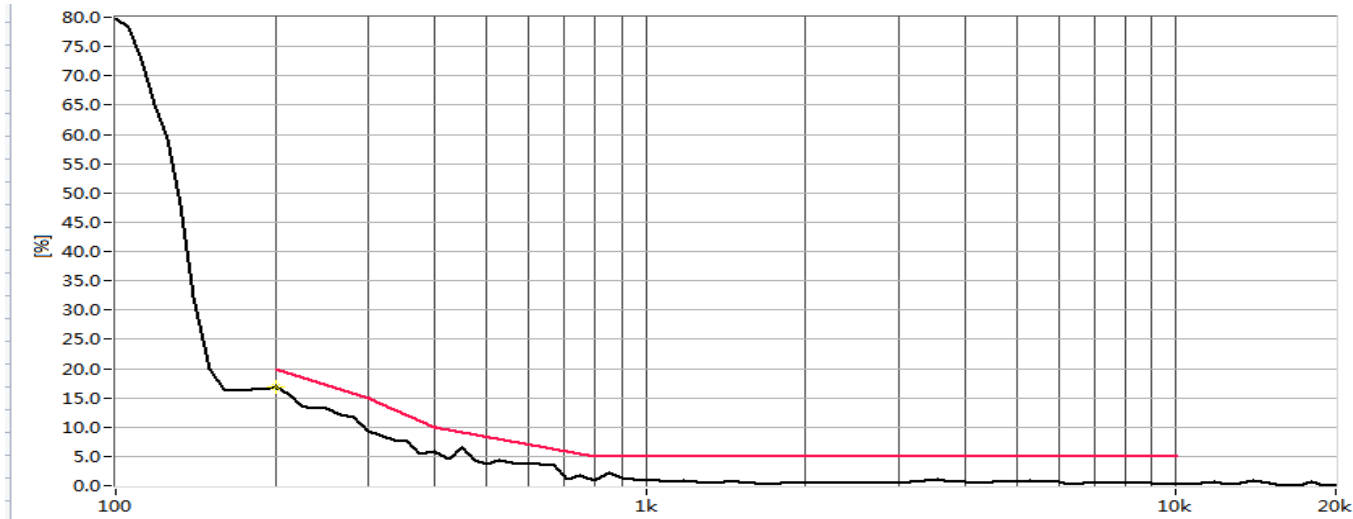
Test condition: 5.0W/0.1M,



Frequency (Hz)	100-800	0.8K-10K	10K-20K
Lower limit	-5	-4	-5

Total Harmonic Distortion Curve

Test condition: 5.0W/0.1M,



Frequency (Hz)	200	300	400	800	1000	2000-10k
limit (%)	20	15%	10%	55%	5%	5%

RELIABILITY 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 Test	96 hours at $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$
3	Low Temperature Test	96 hours at $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$
4	Humidity Test	96 hours at $+30^{\circ}\text{C} \pm 3^{\circ}\text{C}$, 92-95% RH
5	Temp./Humidity Cycle	<p>The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of</p> <p style="text-align: center;">90 ~ 95 % RH</p> <p style="text-align: center;">65°C</p> <p style="text-align: center;">25°C</p> <p style="text-align: center;">0.5hr 6hrs 0.5hr 5hrs</p>
6	Vibration Test	<p>Frequency: 10~55~10Hz Oct/min Amplitude: 1.5mm</p> <p>Duration: 2 hours each of 3 perpendicular directions</p>
7	Drop Test	Drop the speaker contained in normal box onto the surface of 40mm thick board 10 times from the height of 75cm
8	Operation Life Test	Must perform normal with program White-Noise source at Rated Power for 96 Hours
9	Termination Strength	<p>Apply 3.0N(0.306kg) to each terminal in horizontal direction for 30 seconds;</p> <p>Apply 2.0N(0.204kg) to each terminal in vertical direction for 30 seconds;</p>

MEASURING METHOD

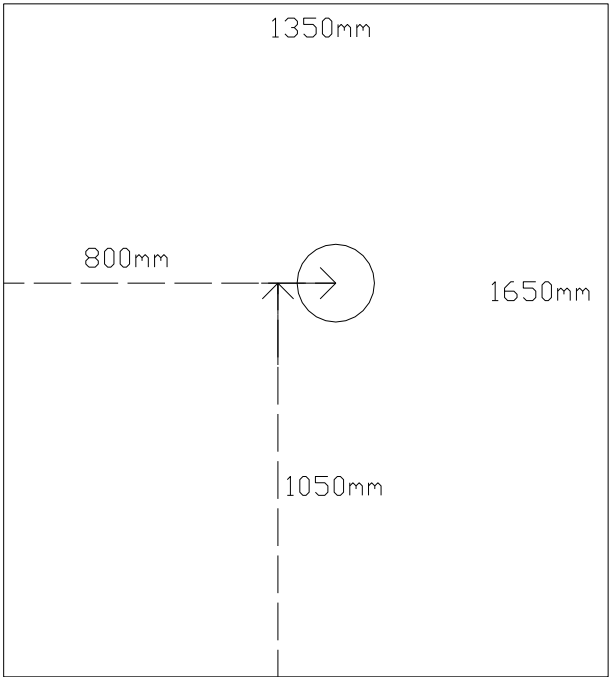
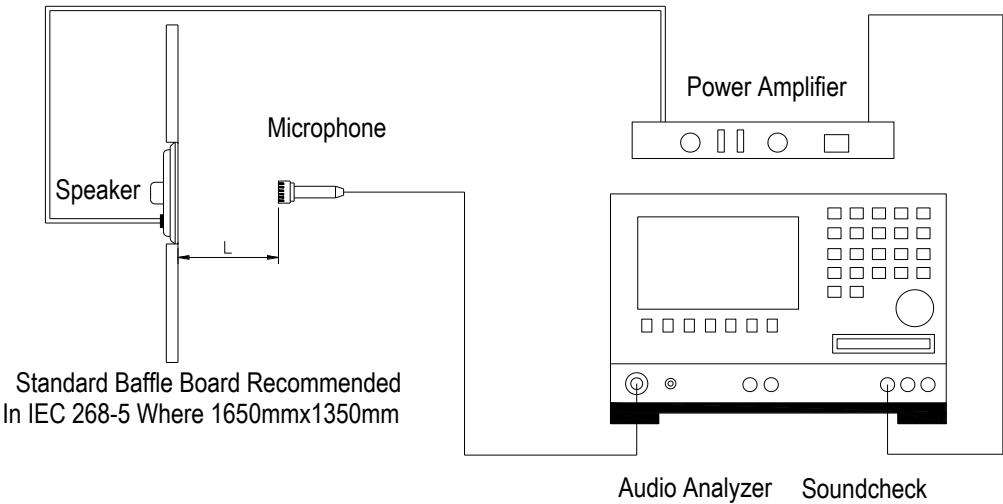


Fig. 1 Block Diagram for Measurement Method

Standard test condition of speaker



L=10cm

Fig. 2 Speaker Test Condition

PACKAGING

TBD