



Round Loudspeaker

Ø40×21.5 mm

CC40S21XN4

Revision

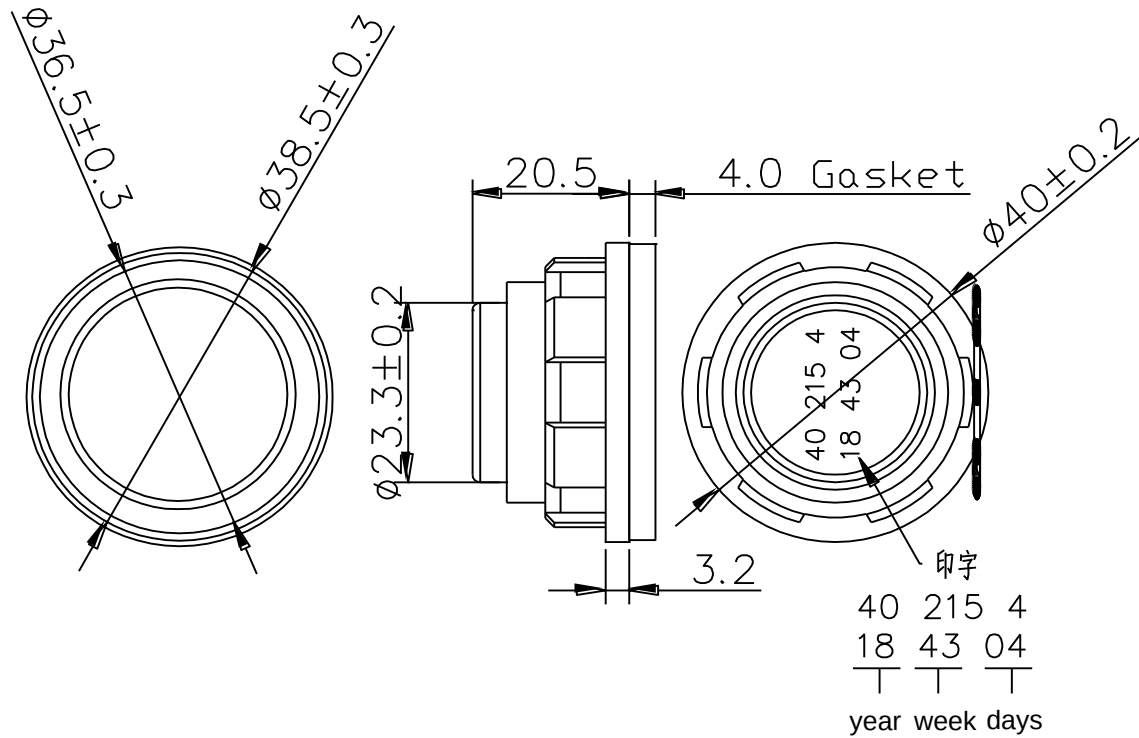
Date	Version	Status	Changes	Approver
2019/3/14	V0.1	Draft	First release	AX
2019/3/25	V0.2	Draft	Add weight information	AX
2019/10/15	V0.3	Draft	Update version	AX

Parameter	Conditions/Description	Values	Units
Rated Input Power		5.0	W
Max Input Power	IEC-60268-5, filter 1s on/60s off, 60 cycles at room temp	8.0	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 1.0W/0.5M average (0dB SPL=20μPa)	84±3	dB
Resonant Frequency (Fo)	at 1.0 V	150±20%	Hz
Frequency Range	Output S.P.L. -10dB	Fo~20K	Hz
Distortion	at 1K Hz, input 1.0W,	< 10%	-
Magnet	NdFeB	Φ15.7*4.0	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		30±8%	g
Operating Temperature		-20~+60	°C

Notes: All specifications measured at 15~35°C, humidity at 25~75%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

Units: mm

Tolerance: $\pm 0.5\text{mm}$ 

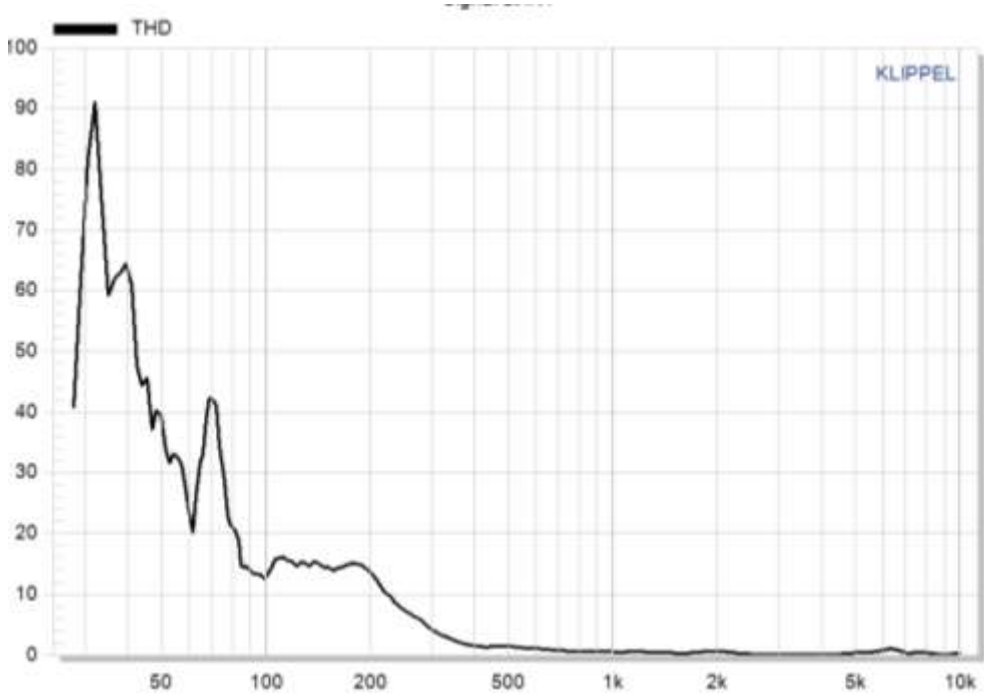
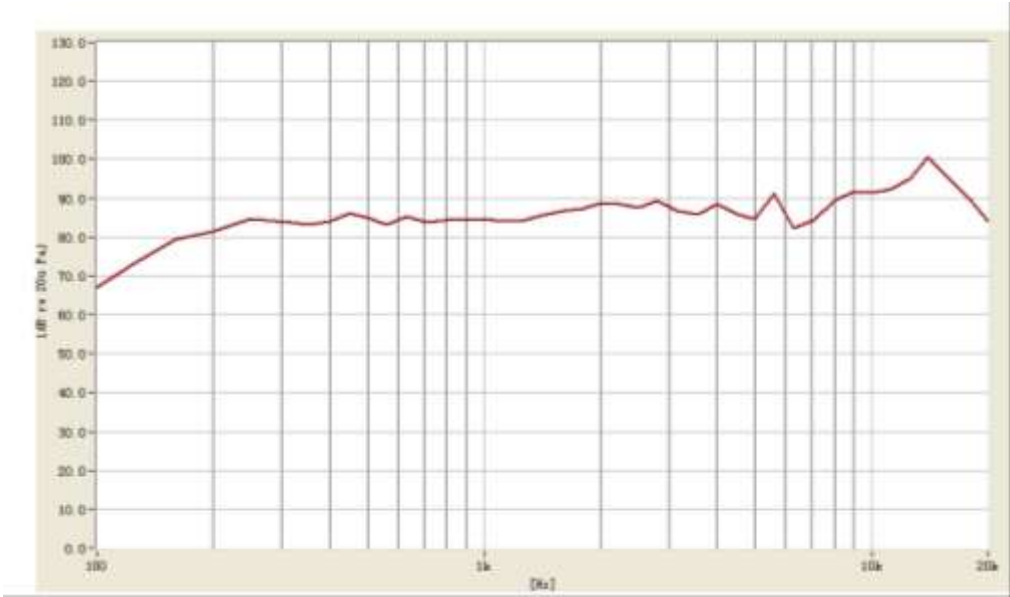
CONSTRUCTION DETAIL

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

RESPONSE CURVES

Frequency Response Curve

Test condition: 1.0W/0.5M,



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 $+60^{\circ}\text{C} \pm 3^{\circ}\text{C}$
3	Low Temperature Test	96 hours at $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$
4	Humidity Test	96 hours at $+30^{\circ}\text{C} \pm 3^{\circ}\text{C}$, 92-95% RH
5	Temp./Humidity Cycle	The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of 90 ~ 95 % RH 65°C 25°C 0.5hr 6hrs 0.5hr 5hrs
6	Vibration Test	Frequency: 10~55~10Hz Oct/min Amplitude: 1.5mm Duration: 2 hours each of 3 perpendicular directions
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	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

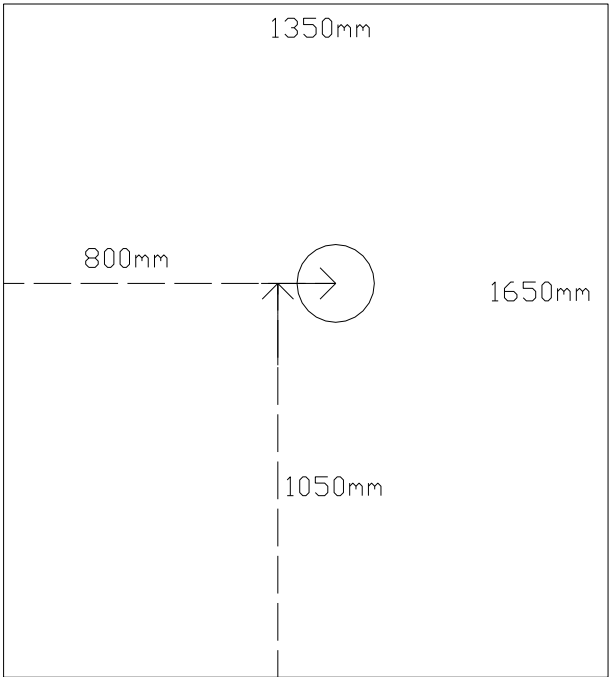
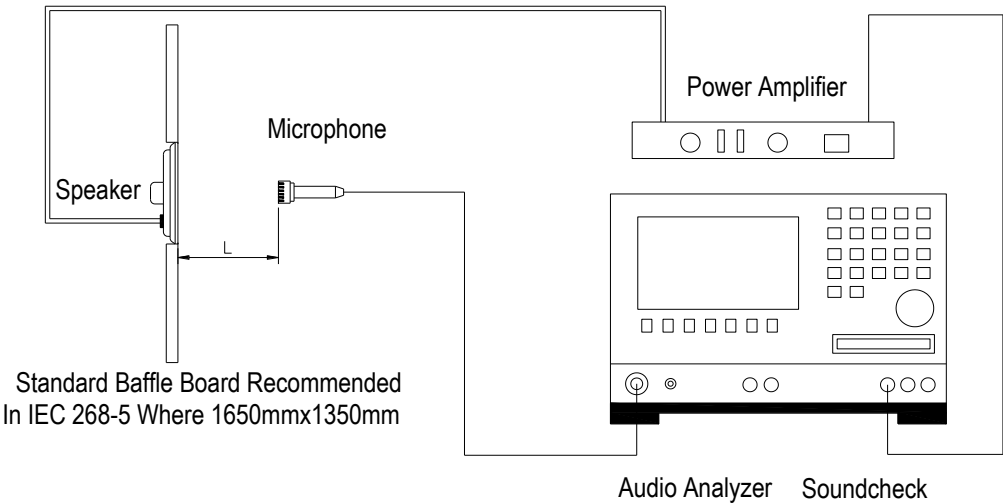


Fig. 1 Block Diagram for Measurement Method

Standard test condition of speaker



L=50cm

Fig. 2 Speaker Test Condition

PACKAGING

units: cm

Remark:

25 pcs per tray

8 units per carton

Total:200 pcs per box

Size:33.0*31.5*32cm

