



Round loudspeaker

$\phi 40 \times 5.5\text{mm}$

**With wire, connector
& gasket**

CC40C055BN8GDA

Revision

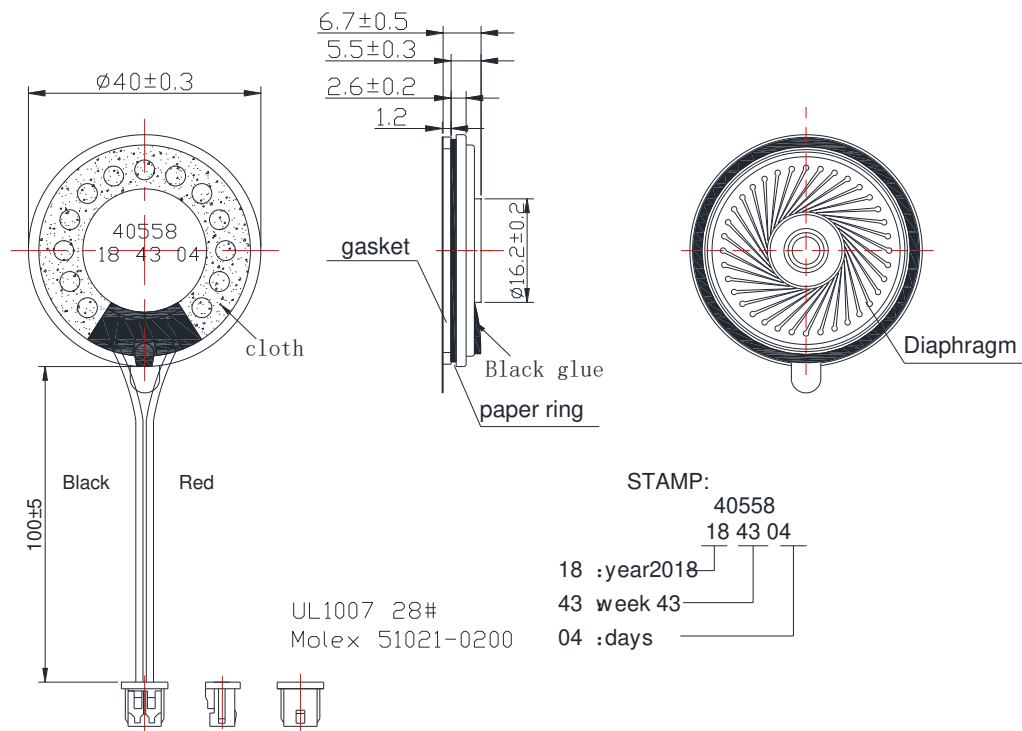
Date	Version	Status	Changes	Approver
2023/12/7	V0.1	Draft	First release	AX

Parameter	Conditions/Description	Values	Units
Rated Input Power		0.5	W
Max Input Power		0.7	W
Rated Impedance	at 2.0 kHz	8±15%	Ω
Sound Pressure Level	at 0.8K 1.0K 1.2K 1.5KHz in 0.1W/0.1M	94±3	dB
Resonant Frequency	at 1.0 V	600±20%	Hz
Frequency Range	Output S.P.L. -10dB	Fo~6K	Hz
Distortion	at 1K Hz, input 0.1W,	< 5%	-
Magnet	NdFeB	Φ12.5*1.5	mm
Buzz, Rattle, etc.	must be normal at sine wave between Fo ~ 5K Hz	2.0	V
Polarity	cone will move forward with positive dc current to “+” terminal		
Weight			g
Operating		-20~+60	°C
Storage Temperature		-30~+70	°C
Waterproof		N/A	

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



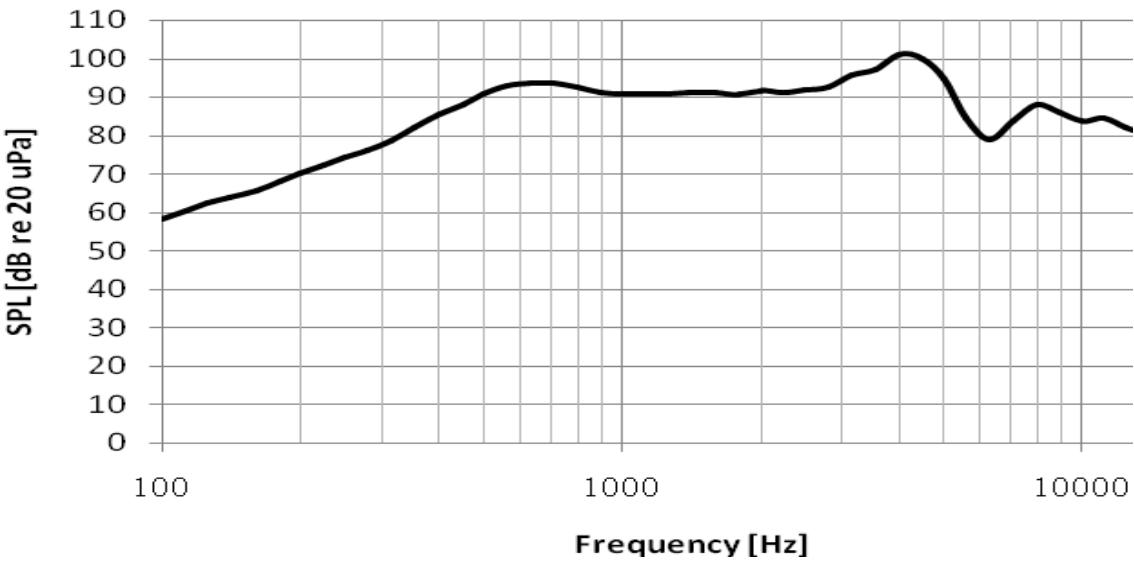
CONSTRUCTION DETAIL

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

RESPONSE CURVES

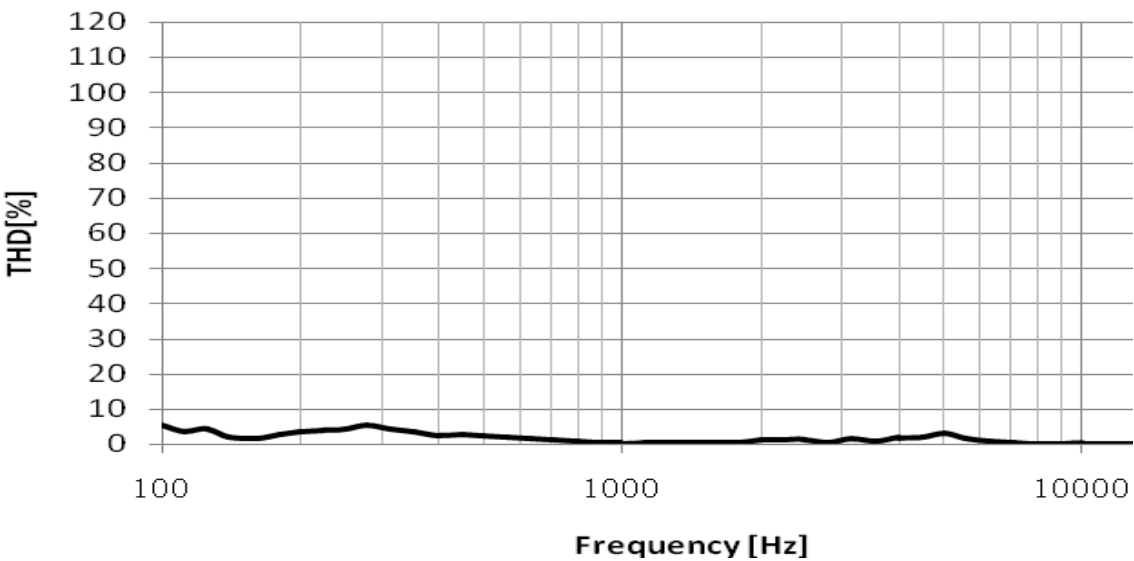
Frequency Response Curve

Test condition: 0.1W/0.1M,



Total Harmonic Distortion Curve

Test condition: 0.1W/0.1M,



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 Maximum Rated Operating Temperature
3	Low Temperature Test	96 hours at Minimum Rated Operating Temperature
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;"> $90 \sim 95 \% \text{ RH}$ 65°C 25°C 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	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

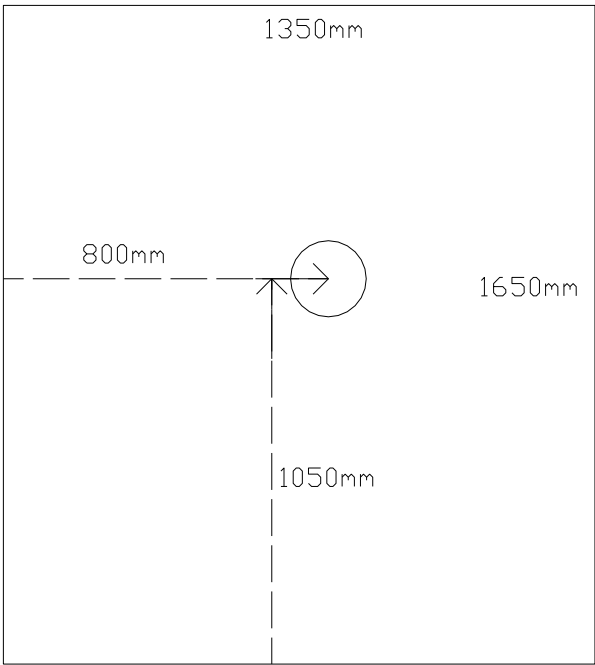


Fig. 1 Block Diagram for Measurement Method

Standard test condition of speaker

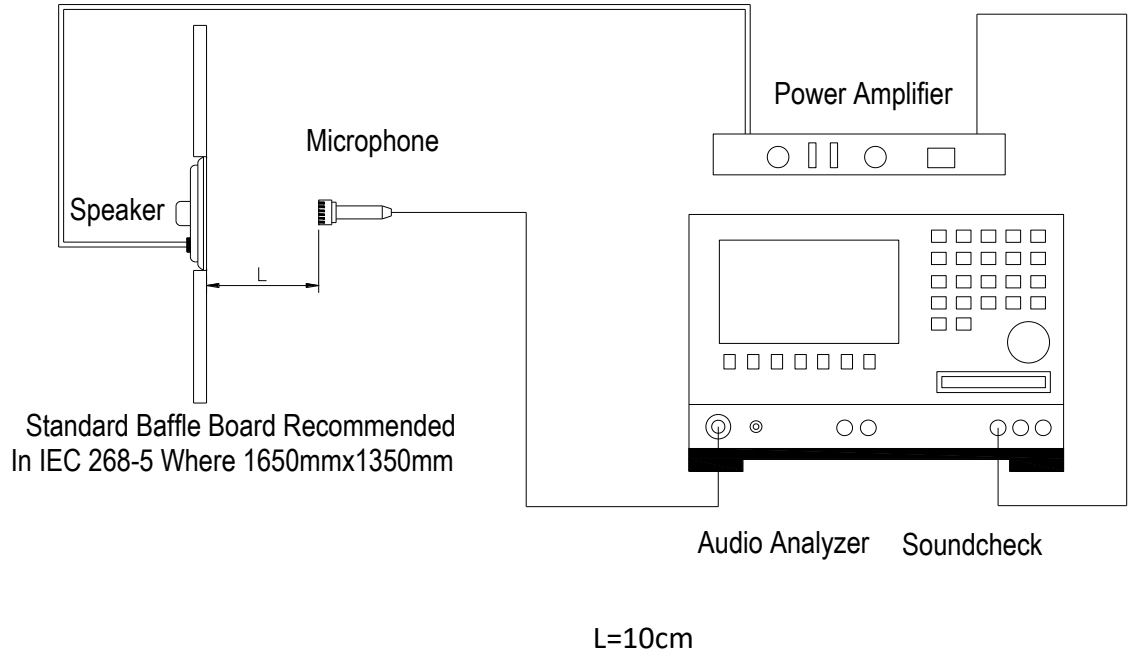


Fig. 2 Speaker Test Condition

PACKAGING

units: cm

Remark:

25pcs per tray

20 trays for unit, 2 units per carton

Total:1000 pcs per box

Size:51.5*34.5*31cm

