



Round Loudspeaker
Ø40.0 × 20.5 mm
With wires & connector

CC40C195DN8P

Revision

Date	Version	Status	Changes	Approver
2021/11/23	V0.1	Draft	First release	AX

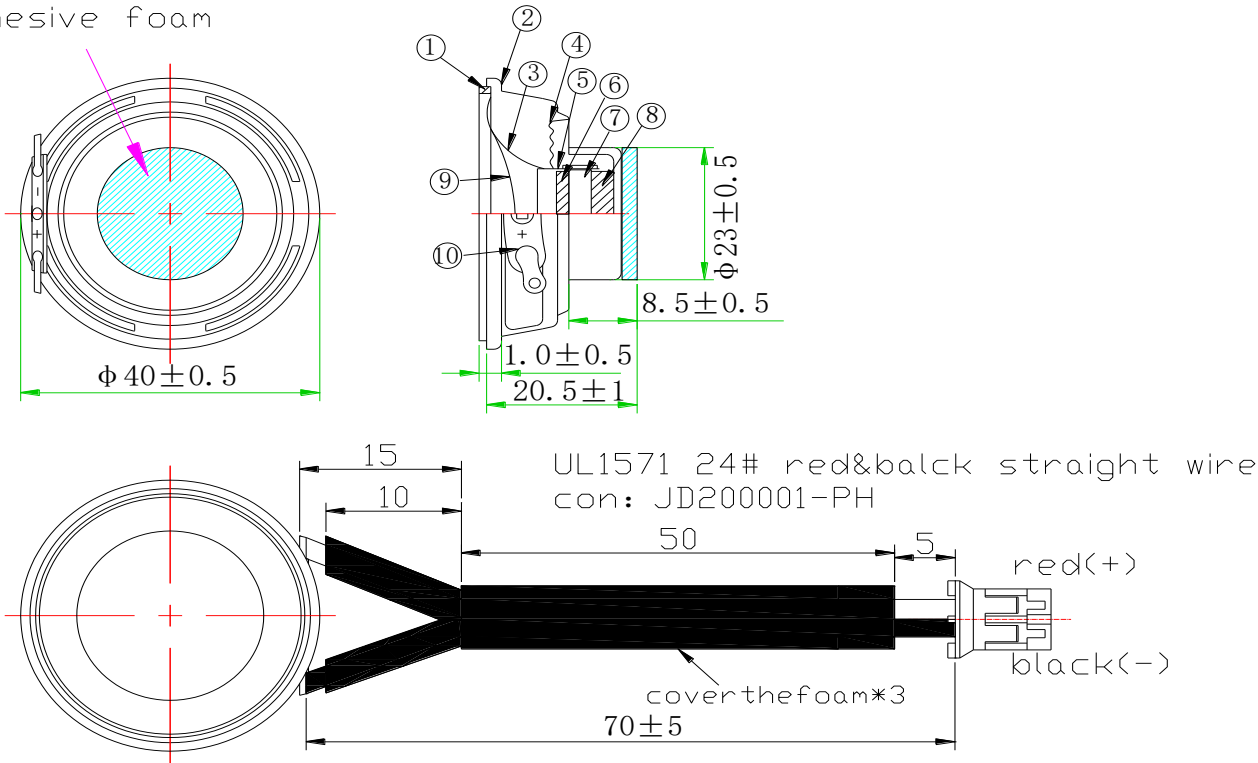
Parameter	Conditions/Description	Values	Units
Rated Input Power		3.0	W
Max Input Power		5.0	W
Impedance		4±15%	Ω
Sound Pressure Level (S.P.L.)	at 0.8K 1.0K 1.2K 1.5KHz in 1.0W/1.0M average (0dB SPL=20μPa)	78±3	dB
Resonant Frequency (Fo)	at 1.0 V	160±20%	Hz
Frequency Range	Output S.P.L. -10dB	Fo~20K	Hz
Distortion	at 1K Hz, input 01.0W,	< 10%	-
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		-20~+60	°C
Storage Temperature		-30~+70	°C
Waterproof		N/A	

Above Measuring condition under temperature : 15~35°C 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

3M 9448B 1.0T one-side
adhesive foam



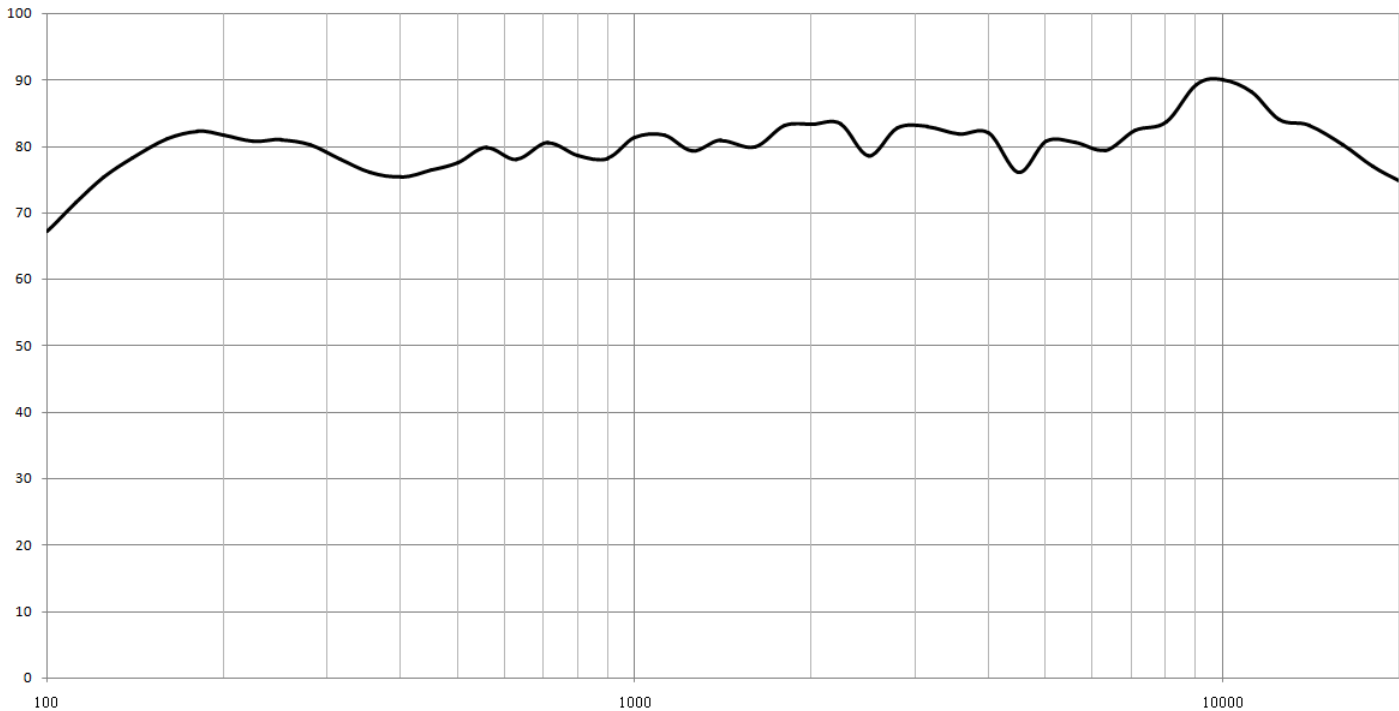
CONSTRUCTION DETAIL

NO	零件 Component	材质 Material
1	压边 Gasket	橡胶 Rubber
2	盆架 Frame	冷轧钢板 SPCC
3	鼓纸 Cone	橡胶边纸盆 Foam+ Paper
4	弹波 Damper	布 Cloth
5	音圈 Voice coil	纸管+铜 PL+Cu
6	磁铁 Magnet	汝铁硼 NdFeB
7	极片 Plate	冷轧钢板 SPCC
8	磁铁 Magnet	汝铁硼 NdFeB
9	帽子 Dust cap	纸帽 Paper
10	接线板 Terminals	纸板+铁 Paper+steel

RESPONSE CURVES

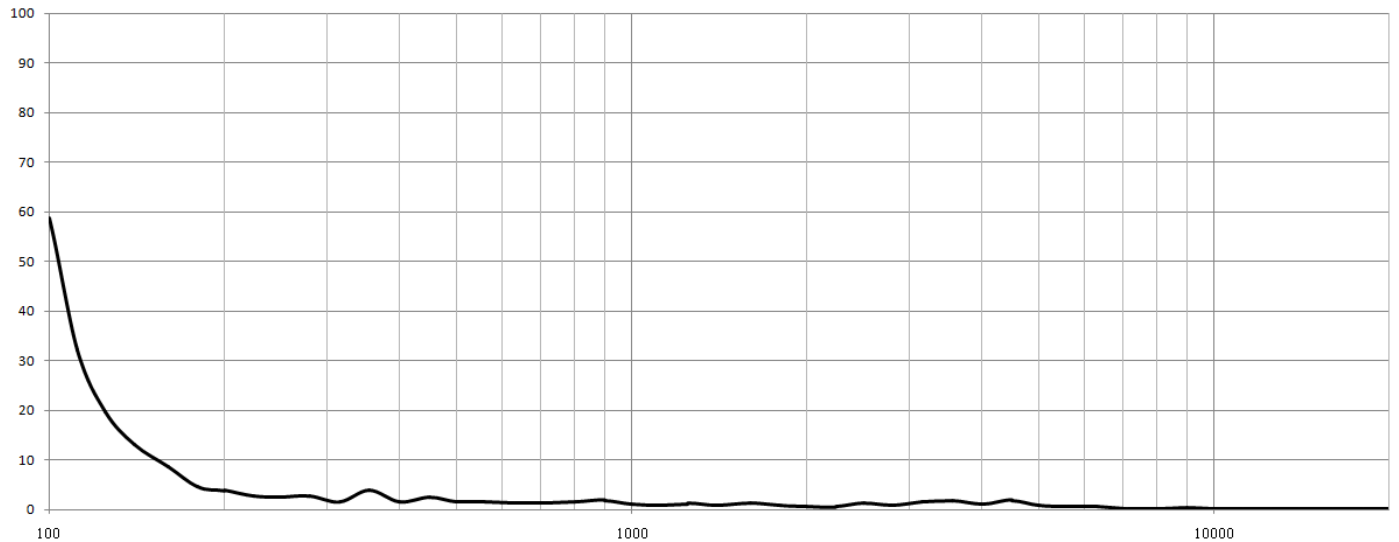
Frequency Response Curve

Test condition: 1.0W/1.0M,

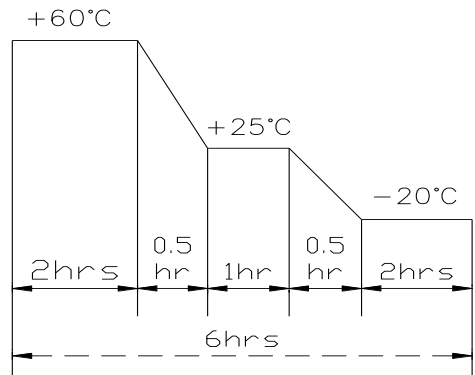


Total Harmonic Distortion Curve

Test condition: 1.0W/1.0M,



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 Operation and Storage	$+ 20 \pm 2$ °C Humidity Random for 96 Hours. (GB/T 9397—200X)
3	Low Temperature Operation and Storage	$- 60 \pm 2$ °C Humidity Random for 96 Hours. (GB/T 9397—200X)
4	Humidity Test	$+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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)  The diagram illustrates a temperature cycle profile over a 6-hour period. It consists of three temperature levels: $+60^{\circ}\text{C}$, $+25^{\circ}\text{C}$, and -20°C. The cycle is divided into segments with the following durations: 2hrs at $+60^{\circ}\text{C}$, 0.5 hr for the ramp down to $+25^{\circ}\text{C}$, 1hr at $+25^{\circ}\text{C}$, 0.5 hr for the ramp down to -20°C, and 2hrs at -20°C. The total duration of one cycle is 6hrs.
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

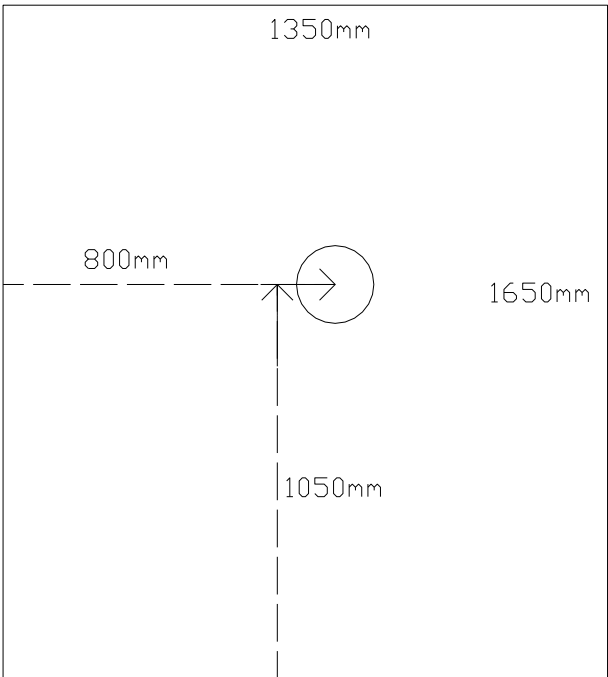


Fig. 1 Block Diagram for Measurement Method

Standard test condition of speaker

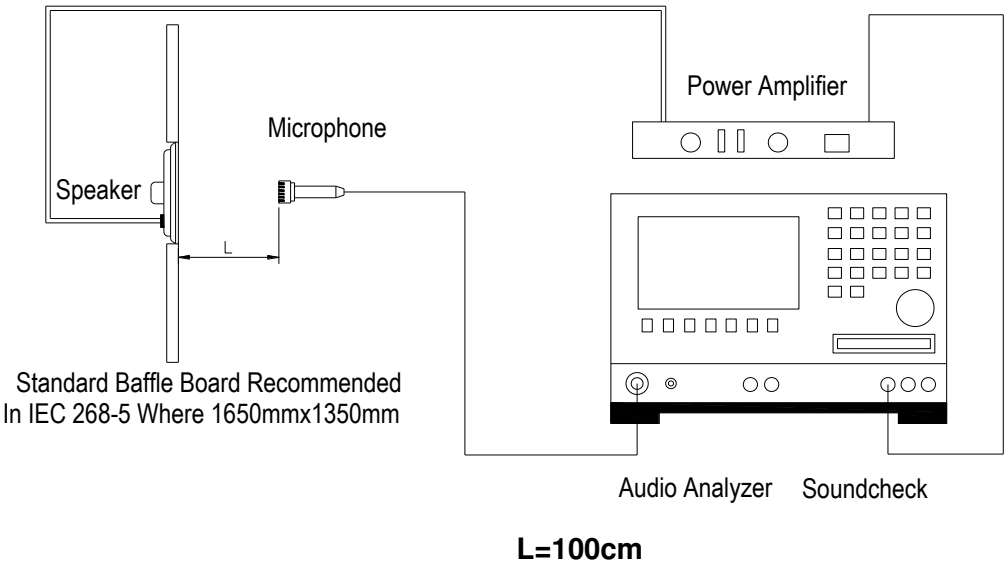


Fig. 2 Speaker Test Condition

PACKAGING

TBD