

:

Product Specification Sheet

φ36 Speaker

RoHS Compliance & Halogen Free

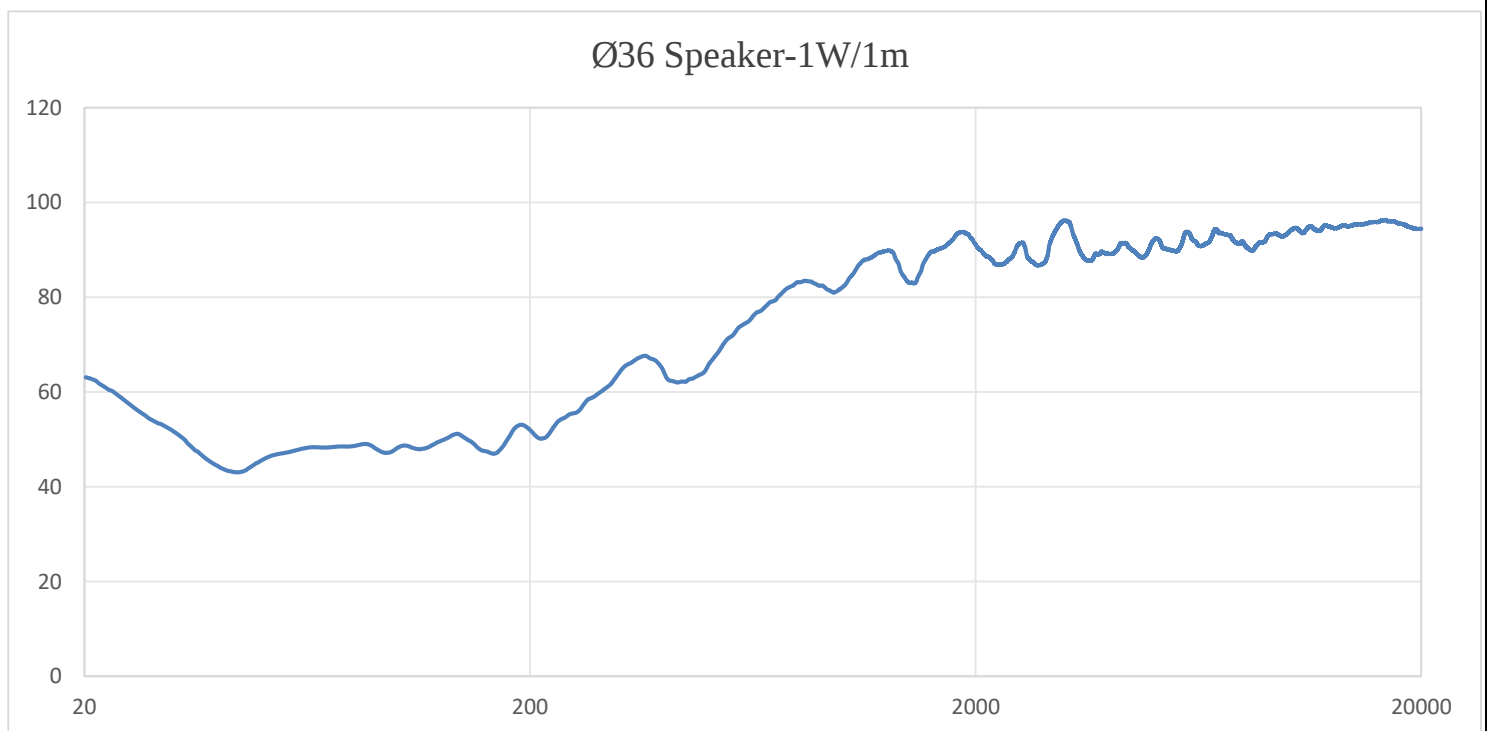
Product : φ36 Speaker
Gettop model : /
Customer Code : XXX
Version : P/0

Designer	Reviewer	Release date
Hua Huang		

REVISED RECORD		
REVISED NO	REVISED DATE	CONTENTS
1	2025.04.21	REVISED

Technical Specifications	SPK	Nominal Impedance(ACR)	$4\Omega \pm 20\%$, @ 150Hz
		Direct Current Resistance (RE)	$3.2\Omega \pm 15\%$
		Resonance Frequency (F0)	$1600\text{Hz} \pm 20\%$
		Sensitivity (SPL)	$87\text{dB} \pm 3\text{dB}$, 1W/1m @150Hz、200Hz、250Hz、300Hz AVE
		Frequency Response (FR)	F0~5kHz
		Rated Power (Po)	3W
		Transient Maximum Power (Pmax)	6W
		Total Harmonics Distortion	$\leq 4\%$, 1W/1m @1.5F0~20kHz
		Weight	$33\text{g} \pm 10\%$
	Pure tone audiometry	Loudspeaker Pure Tone	7.74V 50Hz ~20kHz,3 cycles, single frequency-sweeping time:2s, 30 cm from the human ear.

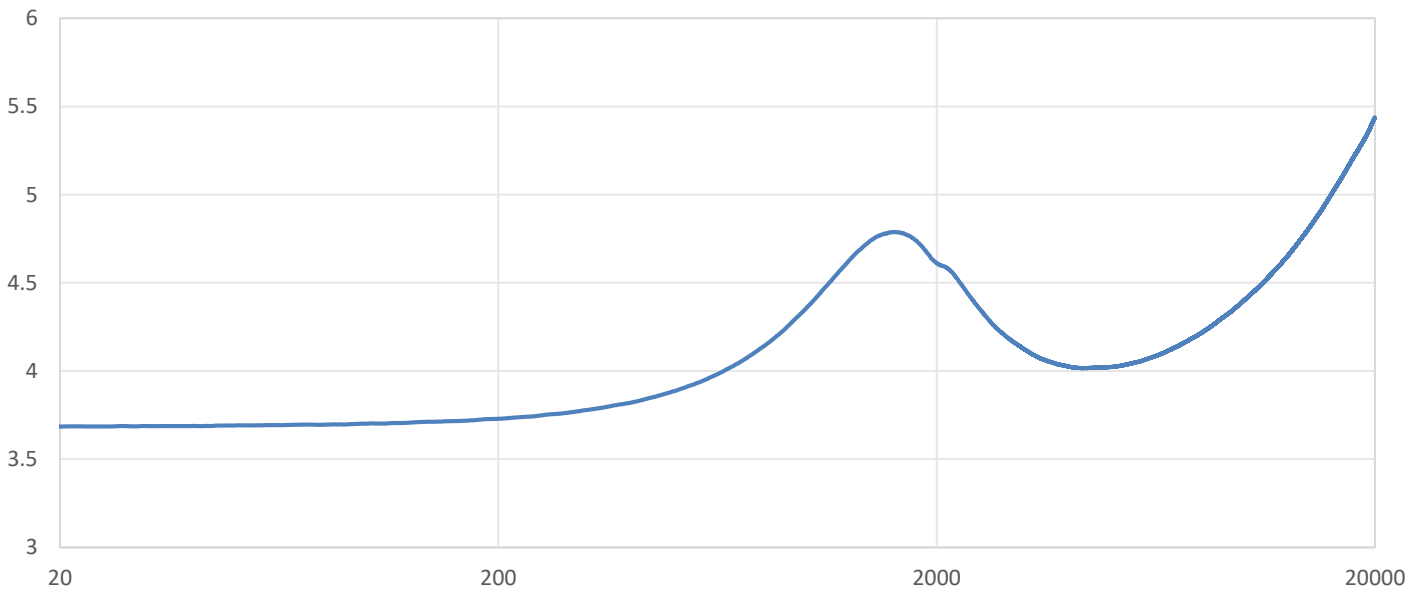
Frequency Response Curve



Testing instrument: Klippel

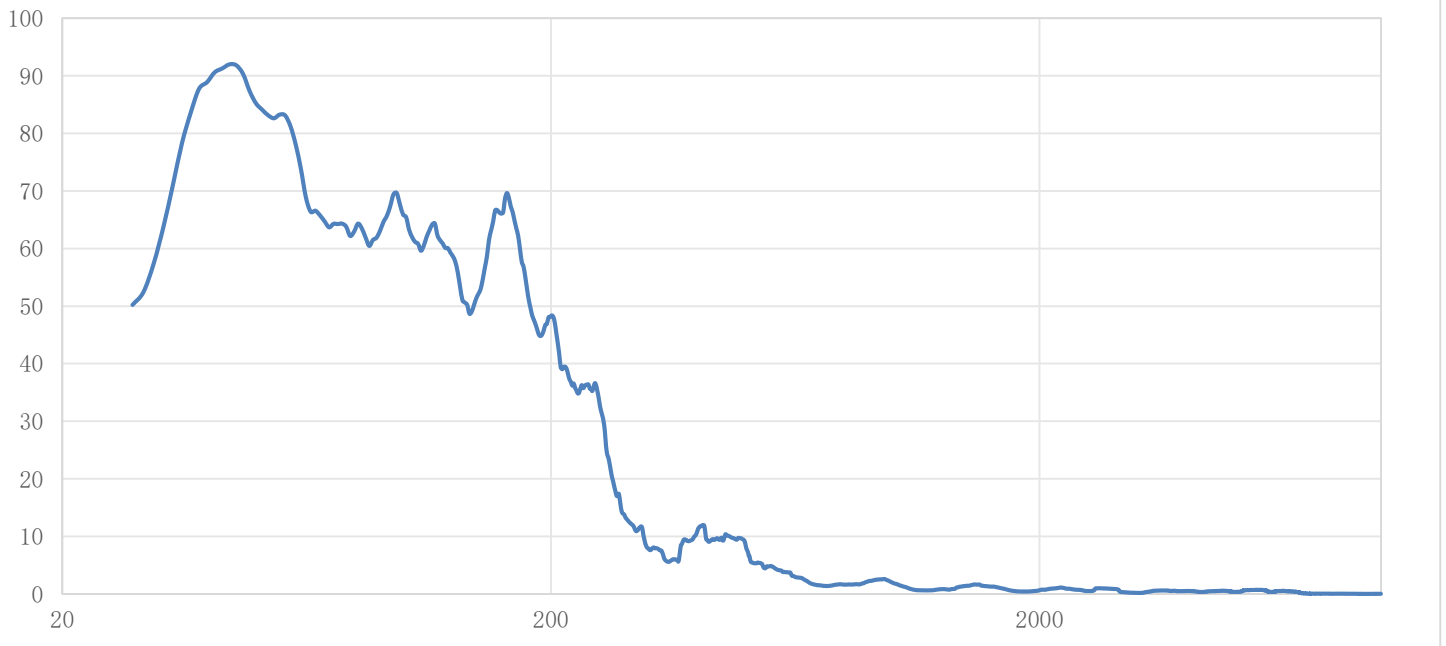
Impedance Curve

Ø36 Speaker-1W/1m



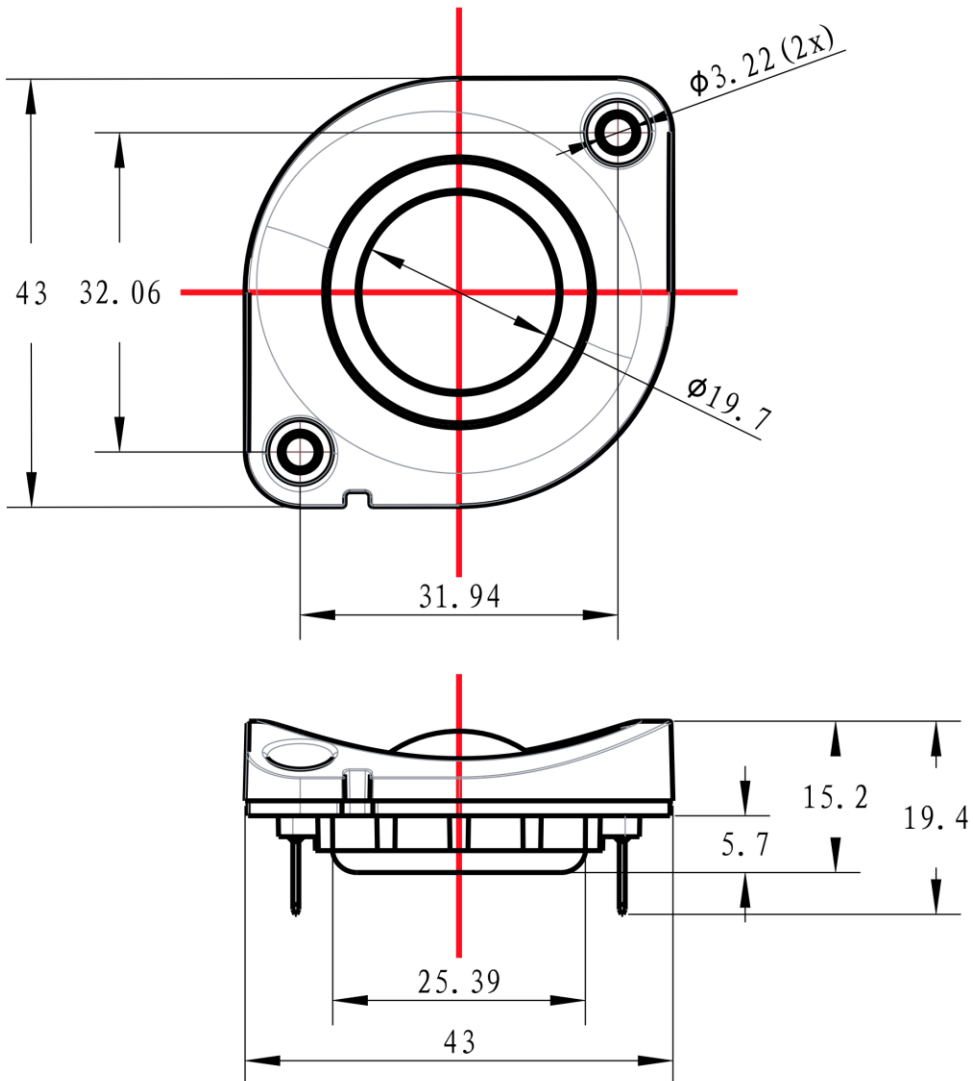
Total Harmonics Distortion Curve

Ø36 Speaker-1W/1m



Testing instrument : Klippel

Speaker drawing :



Measuring Method

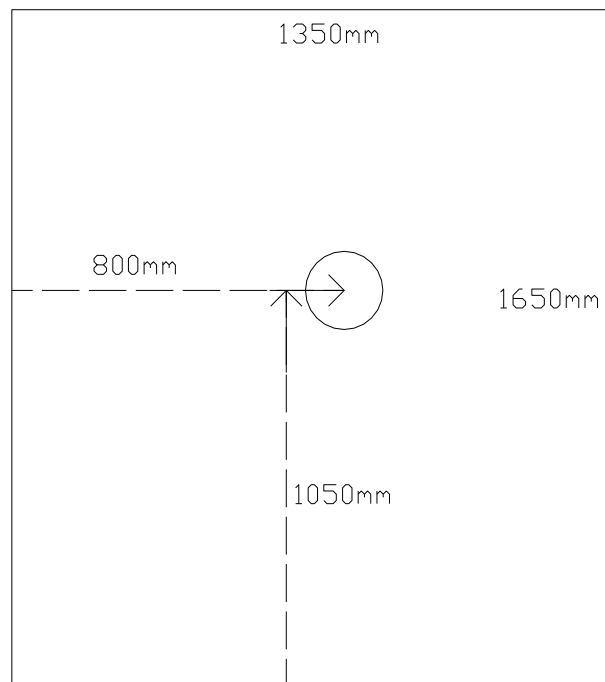


Fig.1 Block Diagram for Measurement Method

Standard test condition of speaker

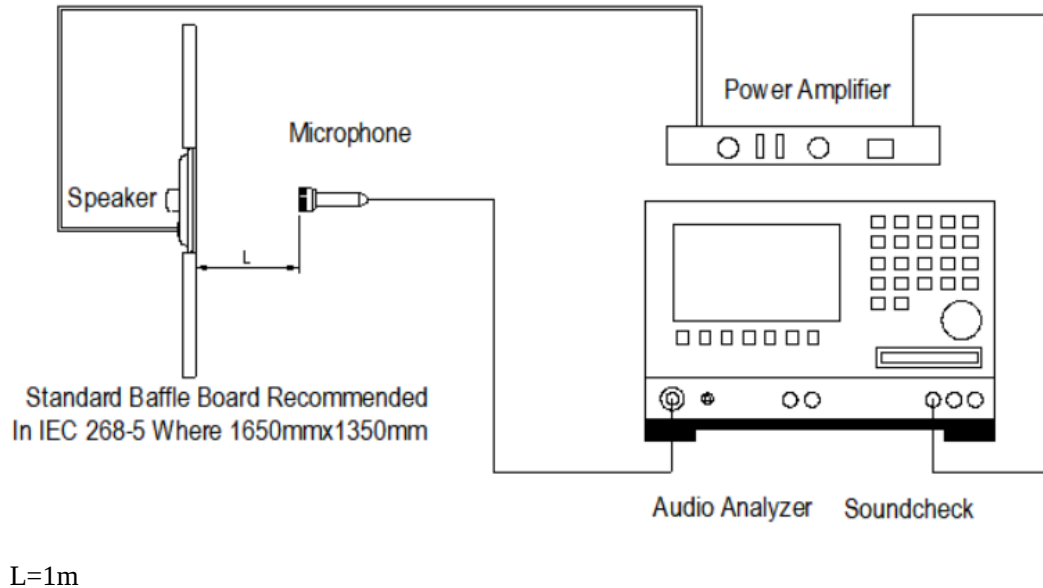
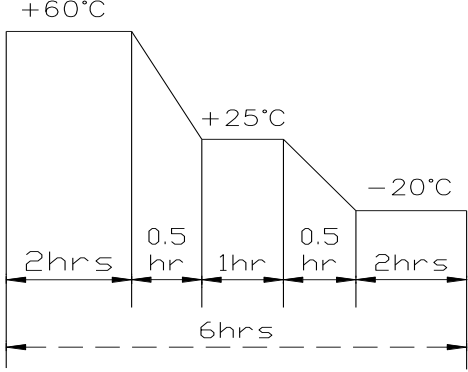


Fig.2 Speaker Test Condition

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 $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$
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  The diagram illustrates a temperature cycle over a 6-hour period. It starts at $+60^{\circ}\text{C}$ for 2 hours, then ramps down to $+25^{\circ}\text{C}$ in 0.5 hours. It remains at $+25^{\circ}\text{C}$ for 1 hour, then ramps down to -20°C in 0.5 hours, and finally remains at -20°C for 2 hours. The total duration is 6 hours.
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