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Product Specification Sheet

φ 27 speaker

RoHS Compliance & Halogen Free

Product : φ 27 speaker
Gettop model :
Customer Code : XXX
Version : P/0

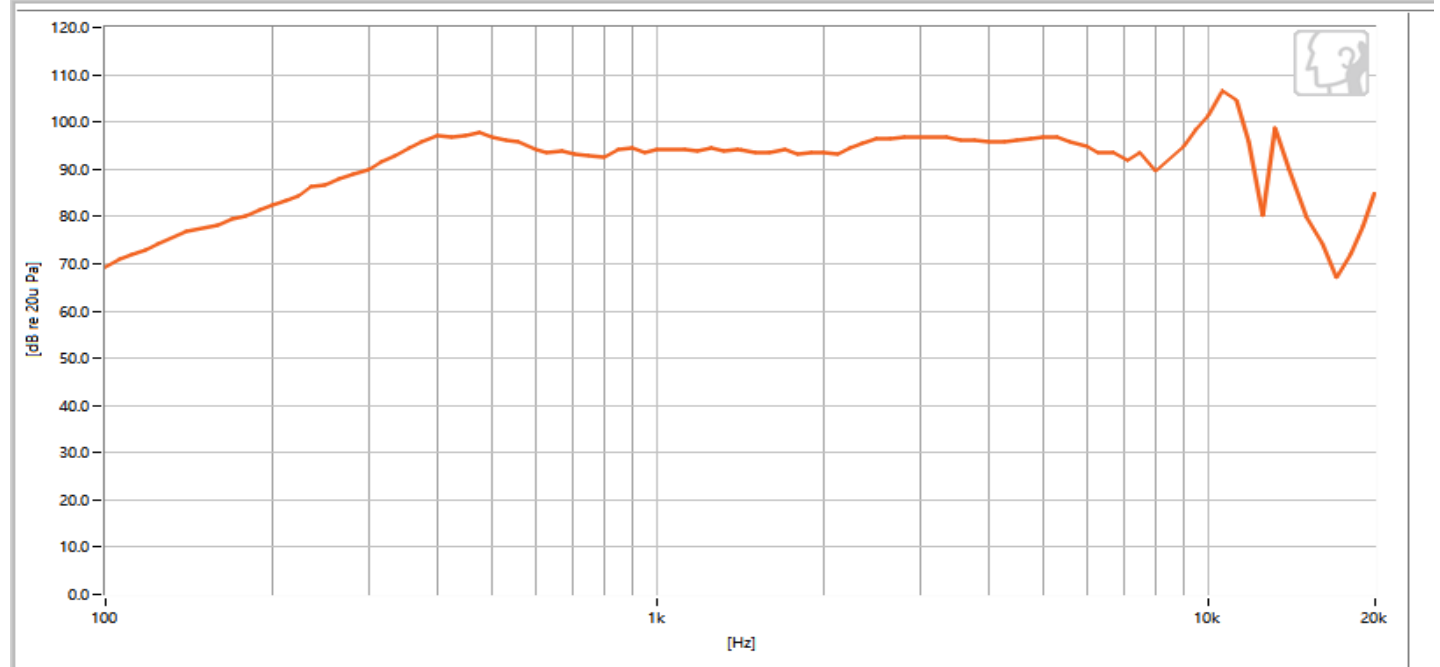
Designer	Reviewer	Release date
/		

REVISED RECORD		
REVISED NO	REVISED DATE	CONTENTS
1	2024.09.13	REVISED

Technical Specifications	SPK	Nominal Impedance(ACR)	$4\Omega \pm 15\%$, @2000 Hz
		Magnet	NdFeB
		Resonance Frequency (F0)	400Hz $\pm$ 20%, @ 1.0V
		Sensitivity (SPL)	92dB $\pm$ 3dB, @1W/0.1m, 600Hz、800Hz、1kHz、1.2kHz AVE
		Frequency Response (FR)	F0~20kHz
		Rated Power (Po)	2W
		Transient Maximum Power (Pmax)	4W (filter 60s on/120s off, 10 cycles at room temp)
		Total Harmonics Distortion	$\leq 5\%$, @1kHz, input 1W
		Weight	14.8g $\pm$ 10%
	Pure tone audiometry	Loudspeaker Pure Tone	3.46 V, F0~5kHz, 3 cycles, single frequency-sweeping time:2s, 30 cm from the human ear.

Frequency Response Curve

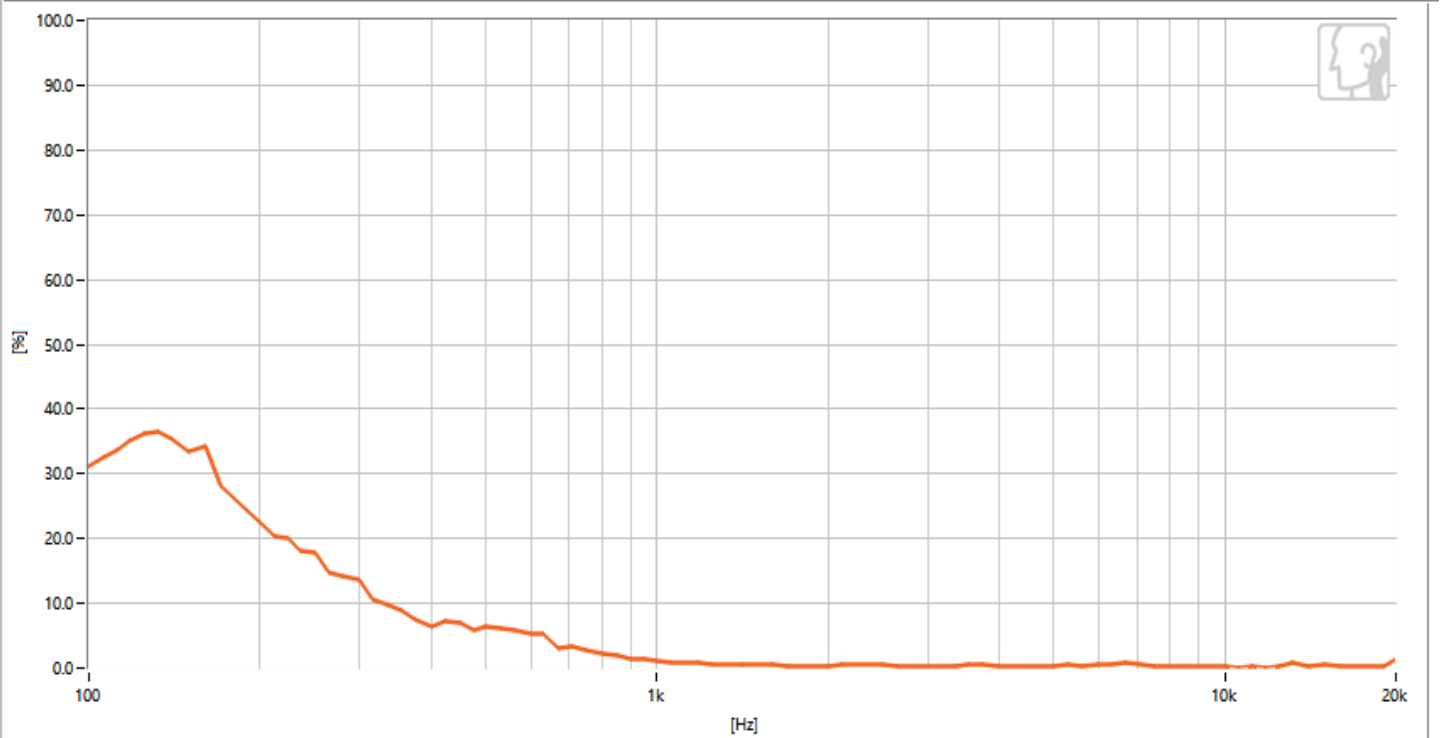
XY Graph 5



Testing instrument: Soundcheck

Total Harmonics Distortion Curve

XY Graph 2



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°C for 2 hours, then decreases to +25°C over 0.5 hours, remains at +25°C for 1 hour, decreases to -20°C over 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

Measuring Method

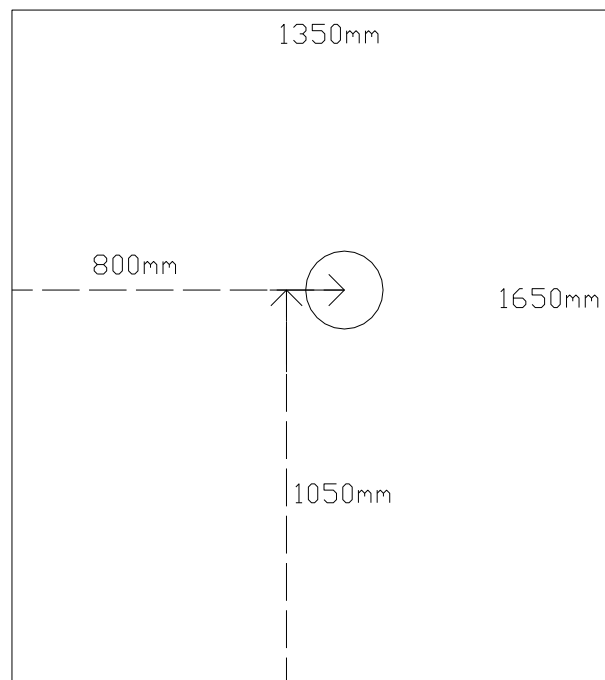


Fig.1 Block Diagram for Measurement Method

Standard test condition of speaker

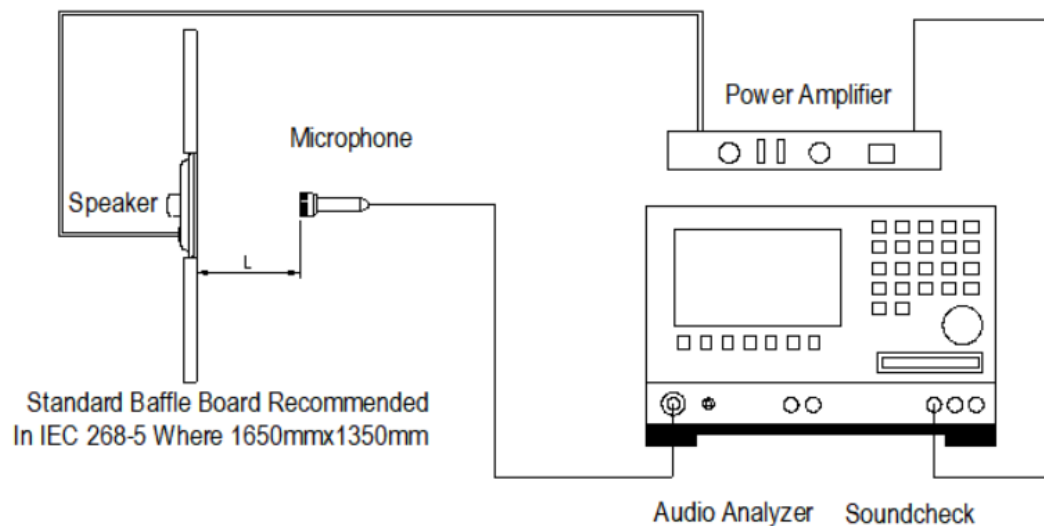
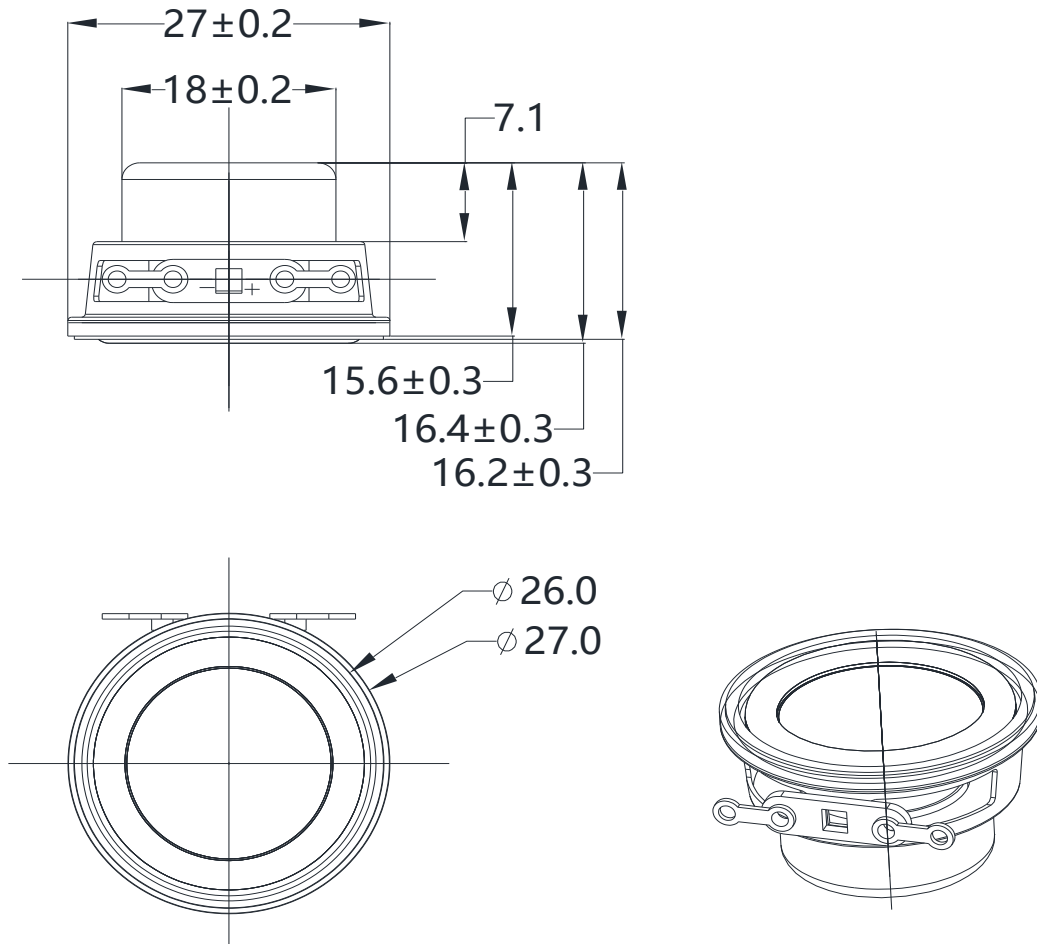


Fig.2 Speaker Test Condition

Speaker drawing:



Packaging

units: cm

Remark:

48 pcs per tray

11 trays for unit, 1 units per carton

Total: 528 pcs per box

Size: 34.5*26.5*36.5cm

