



PN: D0100004FRC66AKR

DWG #:DB26-012

SPECIFICATION

PRODUCT: Loudspeaker

STETRON PART NUMBER: D0100004FRC66AKR

DESCRIPTION: Co-Axial Speaker, 100mm/4 ohms/Lower Tweeter Post/RoHS

RFQ: QB25164-V2

STETRON APPROVALS	PREPARED BY	CHECKED BY	APPROVED BY
SIGNATURE	<i>RS</i>	<i>CS</i>	
DATE	25-Aug-2026	25-Aug-2026	

CUSTOMER APPROVAL	SIGNATURE	DATE

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REVISION HISTORY

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**1. Scope**

This document contains the required electrical, acoustic, mechanical and reliability information for a loudspeaker.

2. Environmental Requirements

This loudspeaker including all components, solder joints and glue must be RoHS compliant and meet the customer's known requirements for banned or restricted substances.

3. Environmental test conditions

	Standard Conditions	Preferred Conditions
Temperature	15 to 35°C	20 ± 2°C
Humidity	25 to 75%	63 to 67%
Air Pressure	86 to 106kPa	86 to 106kPa

Note: Conditions for Acoustic tests only

4. Electrical Requirements**4.1 Rated Impedance**

4Ω ±15% (@350 Hz/1Vrms)

4.2 Rated Power

30.0W (RMS)

4.3 Max Power

45.0W (RMS)

4.4 Polarity

When a positive DC current is applied to the positive terminal of the speaker the diaphragm shall move forward.

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5. Acoustical Requirements

5.1 Sound Pressure Level

85 $\pm$ 3 dB (on IEC 268-5 Baffle in anechoic chamber @ 1W/1m avg. @ 0.1, 1.0, 5.0, and 10.0 kHz)

5.2 Resonant Frequency (F_0)

WF= 101 $\pm$ 20% Hz @ 1Vrms
constant voltage - free
TW =2700 $\pm$ 20% Hz @ 1Vrms
constant voltage - free air

5.3 Frequency Range

F_0 to 20 kHz (SPL -10dB) @ 1W/1m

5.4 Buzz and Rattle

No audible buzzing shall occur at ≥ 0.3 m distance when 15 W power (7.7 Vrms) sine wave from F_0 to 20kHz is applied to the speaker.

*See Test circuit (Fig 1), Frequency Response (Fig 2), and Impedance (Fig 3) below.

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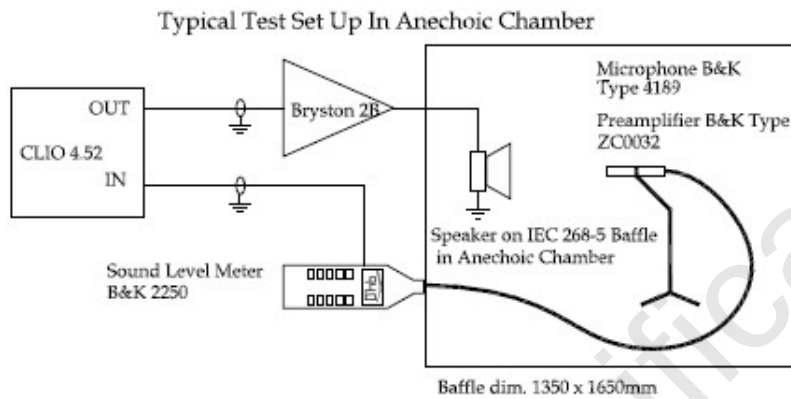


Fig 1. Test set up in Anechoic Chamber

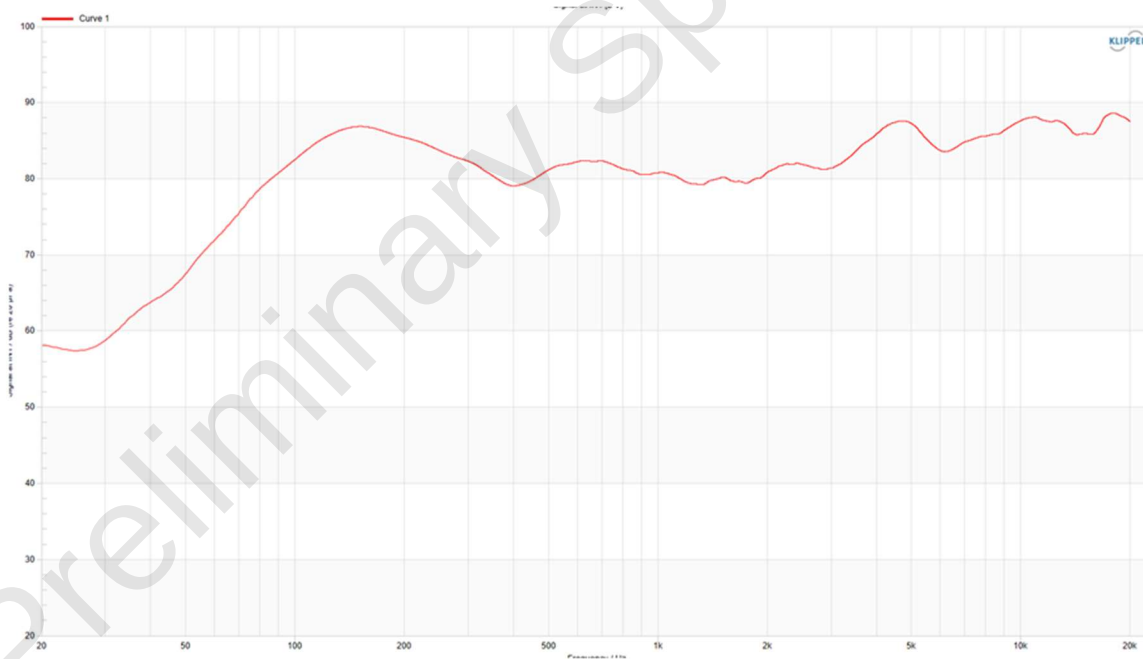


Fig 2. Typical Frequency Response @ 1W/1m

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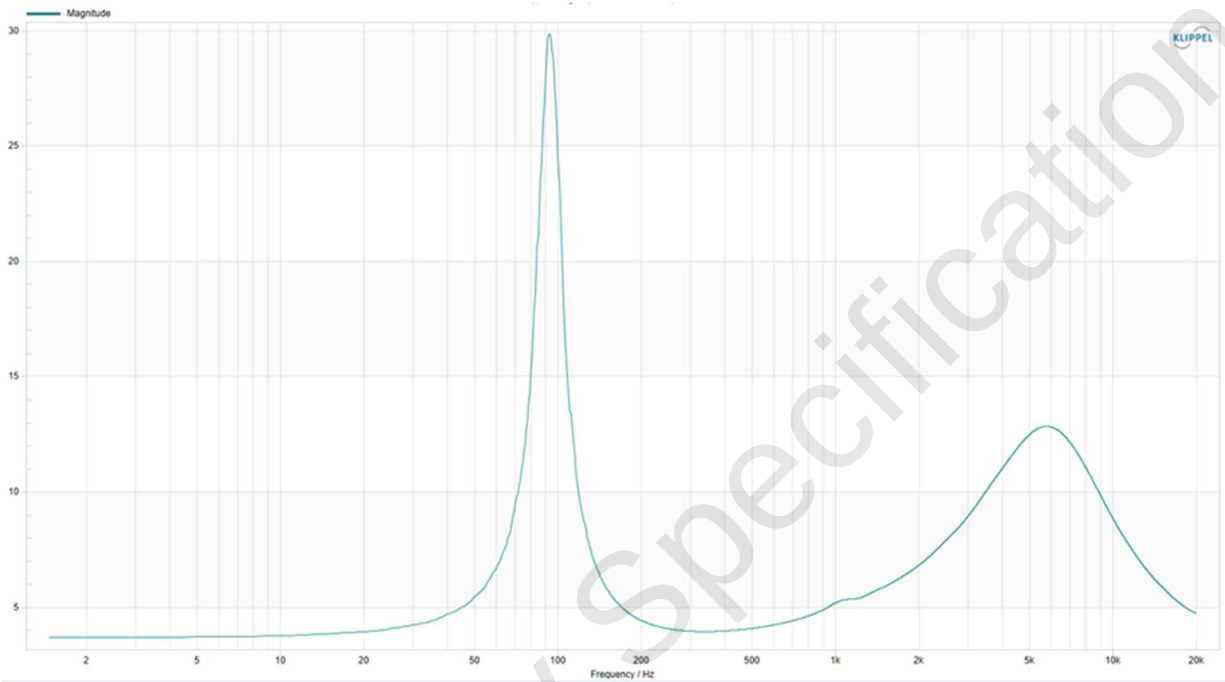


Fig 3. Typical Free air impedance with 1Vrms

6. Reliability

6.1 High Temperature

Speakers are exposed in the high temperature chamber at $+70 \pm 2^\circ\text{C}$, R.H $25\% \pm 5\%$ for 16 hrs.

6.2 Low Temperature

Speakers are exposed in the low temperature chamber at $-25 \pm 2^\circ\text{C}$ (humidity random) for 16 hrs.

6.3 Humidity

Speakers are exposed to $40 \pm 2^\circ\text{C}$, R.H $95\% \pm 5\%$ for 48 hrs.

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*Note: After any of tests 6.1 to 6.3 leave speakers for 1 hr at room temperature.

Speakers must pass pure sound listening and appearance tests.

6.4 Rated Power

Speakers are exposed continuously to 30 W pink noise with 100Hz low pass filter for 96 hrs.

6.5 Max Power

Speakers are exposed to 45W pink noise (no filter) for 1 minute on and 2 minutes off for a total of 10 cycles.

Note: After test 6.4-6.5 leave speakers at room temperature for 1 hour. Speakers must pass pure sound listening, appearance test and the SPL should not deviate by more than $\pm 3\text{dB}$.

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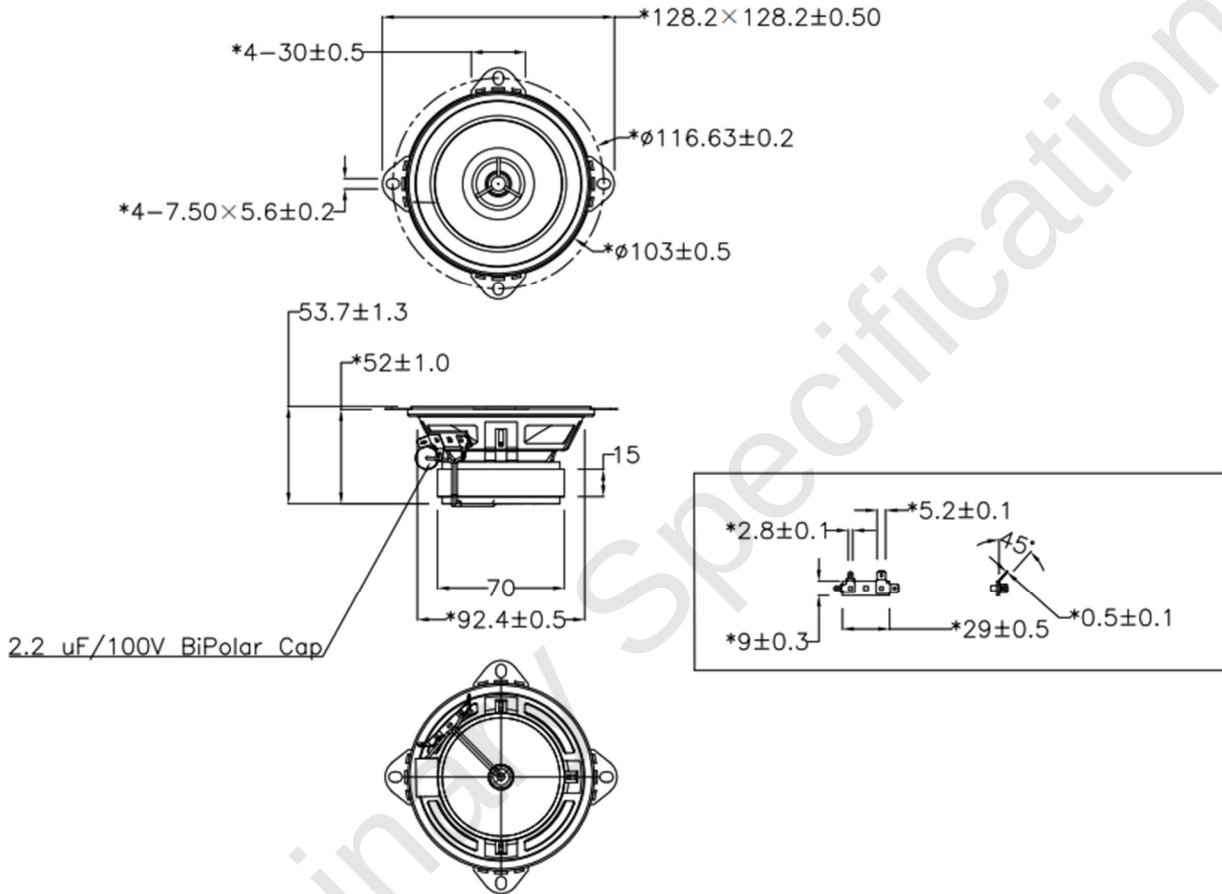
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7. Mechanical Layout and Dimensions



All dimensions in mm

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