



PN: T7555008NC103AKR

DWG #:DB25-009 Rev 0.4

SPECIFICATION

PRODUCT: Loudspeaker

STETRON PART NUMBER: T7555008NC103AKR

DESCRIPTION: Tweeter with face plate/75 x 55mm /8 ohms/RoHS

RFQ: QB25102-V1

STETRON APPROVALS	PREPARED BY	CHECKED BY	APPROVED BY
SIGNATURE	CS	CXQ	CXQ
DATE	14-Aug-2025	15-Aug-2025	15-Aug-2025

CUSTOMER APPROVAL	SIGNATURE	DATE

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REVISION HISTORY

Rev Level	Date	Description	Page #	Changed By
0.0	24-Mar-2025	Original	All Pages	RS
0.1	18-Jun-2025	Added wire assembly, Packaging, Production Stamp	All Pages	RS
0.2	09-July-2025	Added markings to speaker	Pg. 6	RS
0.3	01-Aug-2025	Added EVA gasket	Pg. 6	RS
0.4	14-Aug-2025	Added capacitor to terminal distance	Pg 6	CS

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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**

8Ω ±15% (@3000Hz/1Vrms)

4.2 Rated Power

10.0W (RMS)

4.3 Max Power

15.0W (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

81 $\pm$ 3dB (on IEC 268-5 Baffle in anechoic chamber @ 1W/1m avg. @ 2.0, 4.0, 6.0, and 8.0 kHz)

5.2 Resonant Frequency (F_0)

1600 $\pm$ 20% Hz(no capacitor) @ 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 10W power (8.94Vrms) sine wave from 1800Hz to 20kHz is applied to the speaker connected to a 3.3uF /100V capacitor.

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

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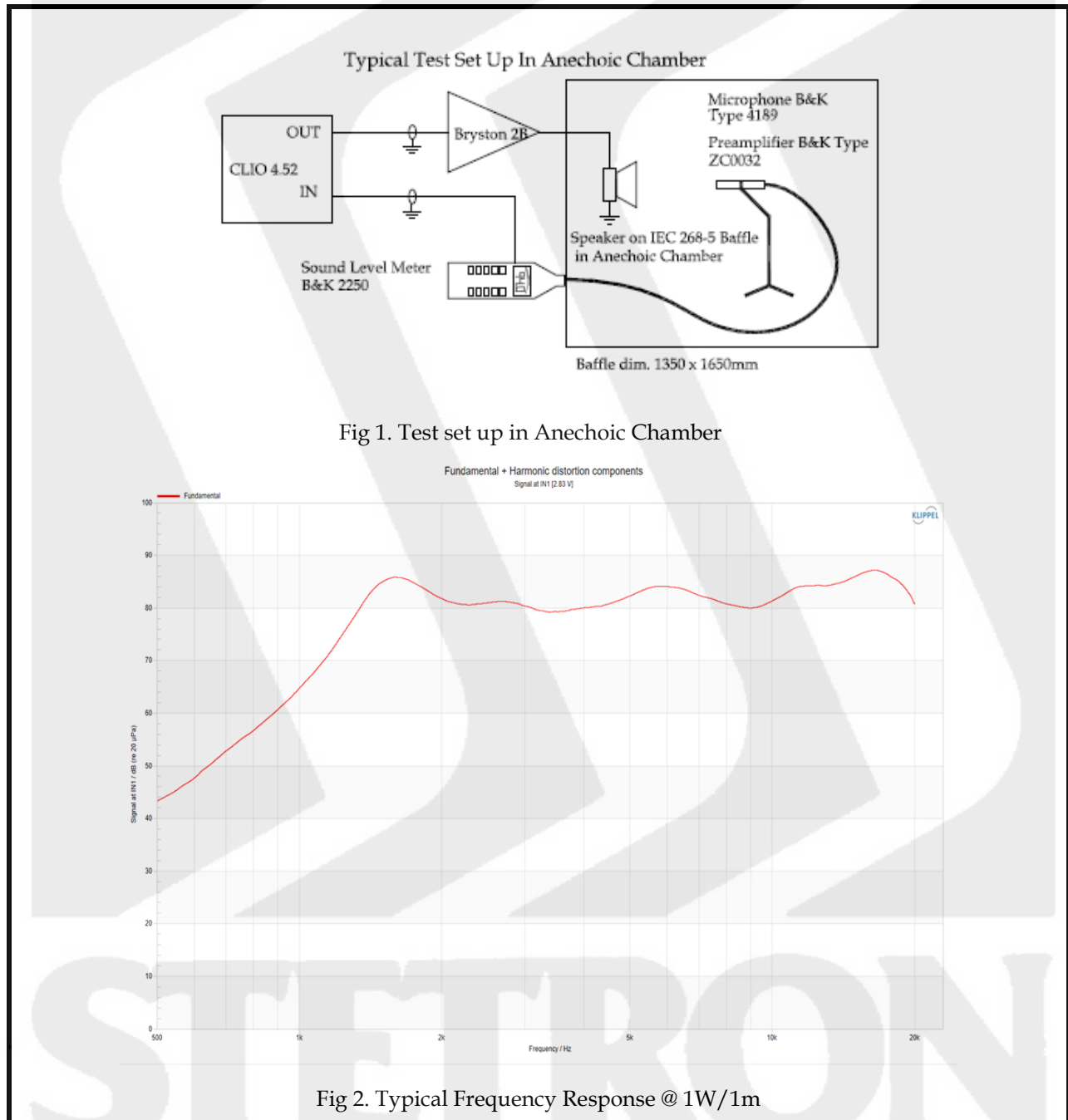
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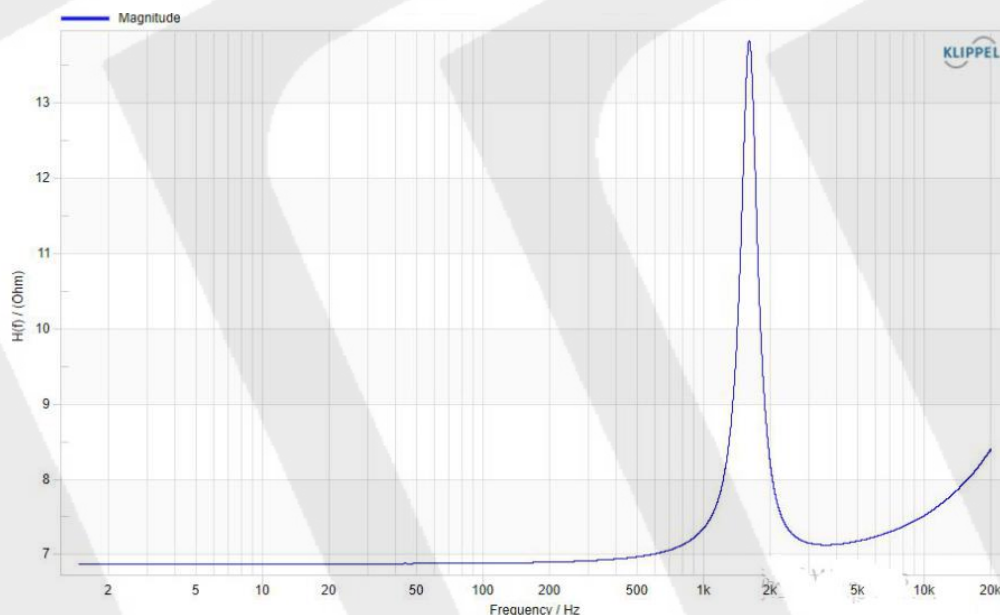


Fig 3. Typical Free air impedance with 1Vrms and No Capacitor

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 $-40 \pm 2^{\circ}\text{C}$ (humidity random) for 16 hrs.

6.3 Humidity

Speakers are exposed to $+40 \pm 2^{\circ}\text{C}$, R.H $95\% \pm 5\%$ for 16 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 10W white noise through a 3.3uF/100V cap. for 96 hrs.

6.5 Max Power

Speakers are exposed to 15W white noise without 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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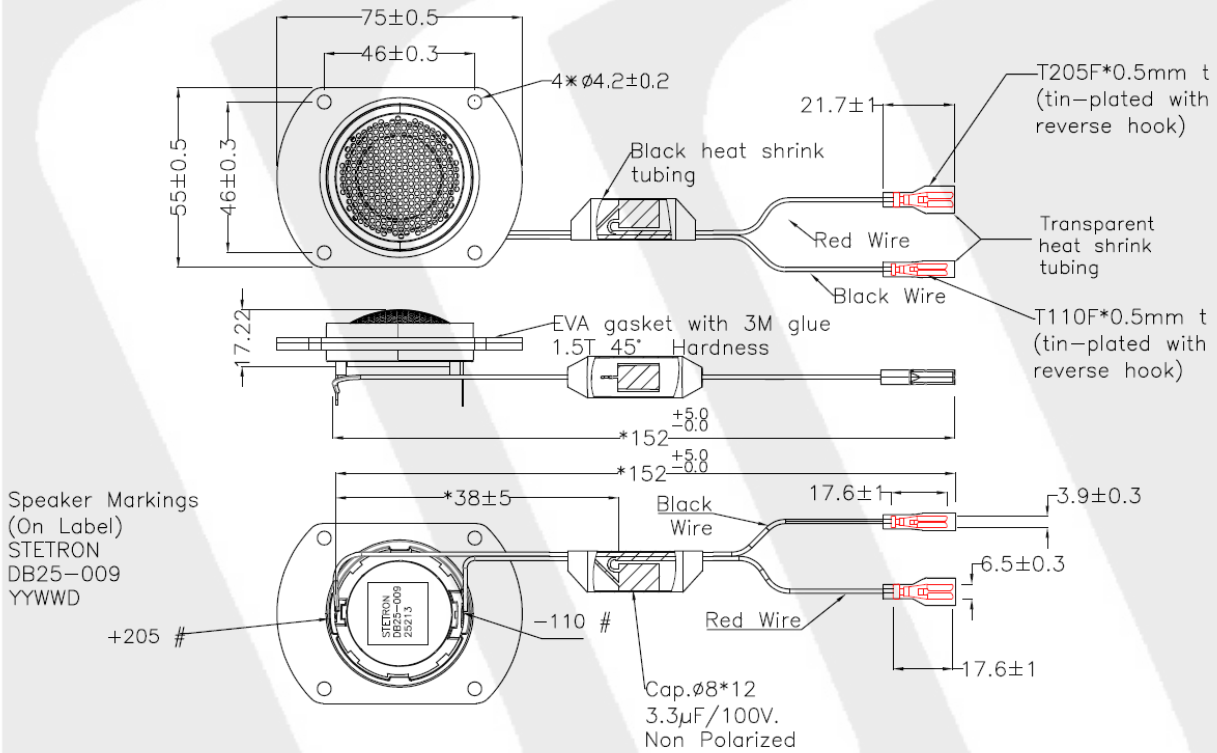
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7. Mechanical Layout and Dimensions



All dimensions in mm

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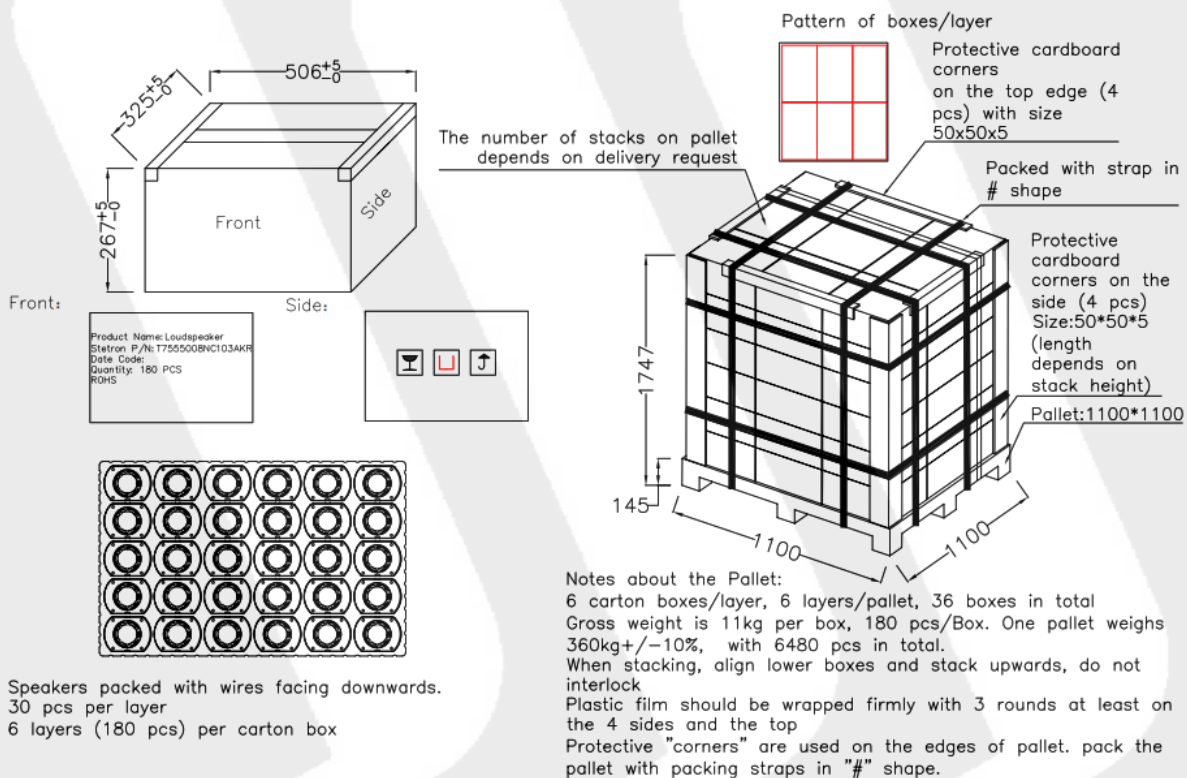
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8. Packaging

All dimensions in mm



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