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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 33769-2017

Sound system equipment -- Electro-acoustical transducers -- Measurement of large signal parameters

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to IEC 62458..2010 "sound system equipment electroacoustic transducer large signal parameter measurement".

This standard has made the following editorial changes.

Figure 2, Figure 3, Figure 4 adds "Note. The sensor includes a mechanical sensor or an acoustic sensor".

This standard is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This standard is nationalized by the National Audio, Video and Multimedia Systems and Equipment Standardization Technical Committee (SAC/TC242).

This standard drafting unit. Nanjing University Institute of Acoustics, Guangzhou Guoguang Electric Co., Ltd., Suzhou Shangsheng Electronics Co., Ltd., Zhejiang

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1 Scope

This standard specifies the basic terms and parameters of the large signal lumped parameter model of electroacoustic transducers, the measurement method and the report of the measurement results

form.

This standard applies to transducers such as loudspeaker units, loudspeaker systems, headphones, microphones, vibrators and other

A dynamic or electromagnetic actuator is coupled to a mechanical suspension system.

2 normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article

Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 12060.5-2011 Acoustic system equipment - Part 5. Test methods for main performance of loudspeakers (IEC 60268-5..2007,

IDT)

IEC 60268-1 Sound System Equipment Part 1. Overview (Soundsystemequipment-Part 1. General)

3 terms and definitions

The following terms and definitions apply to this document.

3.1

Electro-mechanicalequivalentcircuit

The analogy between electricity and force is expressed by the circuit in order to apply the circuit theory to solve the problem of vibration and sound. Figure 1 shows the electric

The equivalent circuit diagram of the electro - hydraulic analogue of the transducer.