GB

NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

ICS 17.140.50

M 72

GB/T 25102.7-2017 / IEC 60118-7:2005

Electroacoustics – Hearing Aids – Part 7: Measurement of the Performance Characteristics of Hearing Aids for Production, Supply and Delivery Quality Assurance Purposes

(IEC 60118-7:2005, IDT)

电声学 助听器 第 7 部分：助听器生产、供应和交货时质量保证的性能特性测量

Issued on: September 07, 2017 **Implemented on: April 01, 2018**

Issued by: General Administration of Quality Supervision, Inspection and Quarantine;

Standardization Administration of the People's Republic of China.

Table of Contents

Foreword

GB/T 25102 *Electroacoustics – Hearing Aids* is composed of the following parts:

--- Part 0: Measurement of Electroacoustic Characteristics;

--- Part 1: Hearing Aids with Induction Pick-up Coil Input;

--- Part 2: Hearing Aids with Automatic Gain Control Circuits;

--- Part 3: Hearing Aids that are not Fully Worn by the Listener;

--- Part 4: Induction Loop Systems for Hearing Aid Purposes – Magnetic Field Strength;

--- Part 5: Nipple Connector for Insert Earphones;

--- Part 6: Characteristics of Electrical Input Circuits for Hearing Aids;

--- Part 7: Measurement of the Performance Characteristics of Hearing Aids for Production, Supply and Delivery Quality Assurance Purposes;

--- Part 8: Methods of Measurement of Performance Characteristics of Hearing Aids under Simulated in Situ Working Conditions;

--- Part 9: Methods of Measurement of Characteristics of Hearing Aids with Bone Vibrator Output;

--- Part 11: Symbols and Markings for Hearing Aids and Related Equipment;

--- Part 12: Dimensions of Electrical Connector Systems;

--- Part 13: Electromagnetic Compatibility (EMC);

--- Part 14: Specification of the Digital Interface;

--- Part 15: Signal Processing in Hearing Aids.

This Part is Part 7 of GB/T 25102.

This Part was drafted as per the rules specified in GB/T 1.1-2009.

This Part used translation method to equivalently adopt IEC 60118-7:2005 *Electroacoustics – Hearing Aids – Part 7: Measurement of the Performance Characteristics of Hearing Aids for Production, Supply and Delivery Quality Assurance Purposes*.

This Part made the following editorial modification:

--- Replace bandwidth with frequency range in 8.4.2 of this Part, which is more in line with

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1 Scope

This Part of GB/T 25102 gives recommendations for the measurement of the performance characteristics of hearing aids of a particular model for production, supply and delivery quality assurance purposes. The manufacturer will normally assign nominal values. Only when the result of a measurement, extended by the actual expanded uncertainty of measurement of the testing laboratory, lies fully within the tolerances specified in this Part, it can be proved that is consistent with this Part. Table 4 gives extended values for U_{max}.

This Part is applicable to the specific type of air-conduction hearing aids.

This Part does not relate to mechanical or environmental tests. It should not be used as the basis for the exchange of information about hearing aid characteristics in general, nor is it intended to be used as a predictor for real-ear performance.

NOTE: Terms such as "manufacturer" and "purchaser" are used in this Part. These terms may be understood, however, to refer to the supplier and recipient respectively in any arrangement for the supply of hearing aids in which the use of this Part is called for.

Though the number of measurements covered by this Part is limited, it is not intended that all measurements described herein shall be made in every case.

In case of custom-made in-the-ear instruments, the data supplied by the manufacturer applies only to the particular hearing aid being tested.

2 Normative References

The following documents are essential to the application of this Document. For the dated documents, only the versions with the dates indicated are applicable to this Document; for the undated documents, only the latest version (including all the amendments) is applicable to this Document.

IEC 60318-5 Electroacoustics – Simulators of Human Head and Ear – Part 5: 2cm^3 Coupler for the Measurement of Hearing Aids and Earphones Coupled to the Ear by Means of Ear Inserts

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