

EDC6 (3326) CD1 IEC 60153-1:2016

DRAFT TANZANIA STANDARD

(Draft for comments only)

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1 National Foreword

This draft Tanzania Standard is being prepared by the Telecommunications and Information Technology Technical Committee, under the supervision of the Electrotechnical divisional standards committee (EDC)

This draft Tanzania Standard is an adoption of the International Standard IEC 60153-1-2016 Audio, video, and related equipment - Determination of power consumption - Part 5: Set-topboxes (STB), Which has been prepared by the International Electrotechnical Commission

2 Terminology and conventions

Some terminologies and certain conventions are not identical with those used in Tanzania standards; attention is drawn especially to the following: -

- 1) The comma has been used as a decimal marker for metric dimensions. In Tanzania Standards, it is current practice to use "full point" on the baseline as the decimal marker.
- 2) Where the words "International Standard(s)" appear) referring to this standard they

(s)"

INTRODUCTION

-5-

This International Standard relates to straight hollow metallic tubing for use as waveguides in electronic equipment. In recent years, the operation frequency of waveguide components and systems has been extended to 1 THz and above. However, the first edition of the IEC 60153 series of standards only specified the aperture dimensions for ordinary rectangular waveguide for frequencies up to 325 GHz. In addition, the first edition of the IEC 60153 series of standards, dating from the 1960's, does not meet the needs of the current applications. This new edition of IEC 60153-1 addresses these two issues by extending the frequency coverage to 3 300 GHz and by addressing current applications for this type of waveguide.

This standard takes into account IEC 60068 when necessary.

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HOLLOW METALLIC WAVEGUIDES -

Part 1: General requirements and measuring methods

1 Scope

This part of IEC 60153 specifies straight hollow metallic tubing for use as waveguides in electronic equipment.

It covers:

- a) the details necessary to ensure compatibility and, as far as essential, interchangeability;
- b) test methods;
- c) uniform requirements for the electrical and mechanical properties.

It should be noted that no recommendations are made for the materials to be used for waveguides. The choice of material is agreed between customer and manufacturer.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050 (all parts), International Electrotechnical Vocabulary (available at http://www.electropedia.org/)

IEC 60068 (all parts), Environmental testin

IEC 60154, Flanges for waveguide

IEC 60261, Sealing test for pressurized waveguide tubing and assemblies

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050, as well as the following apply.

3.1 type test

complete series of tests to be carried out on a number of specimens representative of the type, with the object of determining whether a particular manufacturer can be considered to be able to produce products meeting the specification

3.2

type approval

decision by the proper authority (the customer himself or his nominee) that a particular manufacturer can be considered to be able to produce in reasonable quantities the type meeting the specification