

Hollow metallic waveguides - Part 1: General
requirements and measuring methods

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 60153-1:2016 sisaldab Euroopa standardi EN 60153-1:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 60153-1:2016 consists of the English text of the European standard EN 60153-1:2016.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 02.09.2016.	Date of Availability of the European standard is 02.09.2016.
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ICS 33.120.10

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English Version

**Hollow metallic waveguides -
Part 1: General requirements and measuring methods
(IEC 60153-1:2016)**

Guides d'ondes métalliques creux -
Partie 1: Exigences générales et méthodes de mesure
(IEC 60153-1:2016)

Metallische Hohlleiter -
Teil 1: Allgemeine Anforderungen und Messverfahren
(IEC 60153-1:2016)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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European foreword

The text of document 46F/302/CDV, future edition 2 of IEC 60153-1, prepared by SC 46F "RF and microwave passive components", of IEC/TC 46 "Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60153-1:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-03-22
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-06-22

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Endorsement notice

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Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050	series	International Electrotechnical Vocabulary (IEV)	-	-
IEC 60068	series	Environmental testing	EN 60068	series
IEC 60154	series	Flanges for waveguides	EN 60154	series
IEC 60261	-	Sealing test for pressurized waveguide tubing and assemblies	HD 138 S2	-

CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 Type designation	7
4.1 Type	7
4.2 Designation.....	7
5 Standard atmospheric conditions for testing	8
6 Visual inspection	8
7 Mechanical requirements	8
7.1 Dimensions	8
7.1.1 General	8
7.1.2 Ordinary rectangular waveguides	9
7.1.3 Rectangularity of cross-section.....	10
7.1.4 Flat rectangular waveguides.....	10
7.1.5 Circular waveguides.....	11
7.2 Other mechanical requirements.....	11
7.2.1 Bow	11
7.2.2 Twist.....	12
7.2.3 Surface roughness	12
7.2.4 Internal stress.....	12
8 Electrical tests.....	12
8.1 Attenuation	12
8.2 Internal reflections from irregularity of internal dimensions	13
9 Additional tests – Gas tightness	14

INTRODUCTION

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.

When there is a difference between the general requirements and the relevant specification sheet, the latter prevails.