SLOVENSKI STANDARD
SIST EN 61580-9:1998

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Methods of measurement for waveguides - Part 9: Reflection coefficient at rectangular waveguide interfaces (IEC 61580-9:1996)

Methods of measurement for waveguides -- Part 9: Reflection coefficient at rectangular waveguide interfaces

Meßverfahren für Hohlleiter -- Teil 9: Dämpfungskoeffizient rechteckiger Hohlleiter-Adapter

Méthodes de mesure appliquées aux guides d'ondes -- Partie 9: Coefficient de réflexion aux interfaces de guides d'ondes rectangulaires

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EUROPEAN STANDARD

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Descriptors: Waveguides, reflection coefficient at rectangular interfaces

English version

Methods of measurement for waveguides
Part 9: Reflection coefficient at rectangular waveguide interfaces
(IEC 1580-9:1996)

Méthodes de mesure appliquées aux guides d'ondes
Partie 9: Coefficient de réflexion aux interfaces de guides d'ondes rectangulaires
(CEI 1580-9:1996)

Meßverfahren für Hohlleiter
Teil 9: Dämpfungskoeffizient rechteckiger Hohlleiter-Adapter
(IEC 1580-9:1996)

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CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

The text of document 46B/210/FDIS, future edition 1 of IEC 1580-9, prepared by SC 46B, Waveguides and their accessories, of IEC TC 46, Cables, wires, waveguides, R.F. connectors, and accessories for communication and signalling, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61580-9 on 1996-07-02.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1997-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-04-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 1580-9:1996 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 154	series	Flanges for waveguides	EN 60154-1 HD 129	1994 series

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Partie 9: Coefficient de réflexion aux interfaces de guides d'ondes rectangulaires

Methods of measurement for waveguides –

Part 9: Reflection coefficient at rectangular waveguide interfaces

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

METHODS OF MEASUREMENT FOR WAVEGUIDES –

Part 9: Reflection coefficient at rectangular waveguide interfaces

FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

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International Standard IEC 1580-9 has been prepared by subcommittee 46B: Waveguides and their accessories, of IEC technical committee 46: Cables, wires, waveguides, r.f. connectors, and accessories for communication and signalling.

The text of this standard is based on the following documents:

FDIS	Report on voting
46B/210/FDIS	46B/217/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

INTRODUCTION

Due to tolerances in waveguide dimensions, flange alignment holes and bolt diameters, the junction between two similar waveguides can give rise to reflections of an input signal. This part of IEC 1580 examines the effects on reflection coefficient due to the various tolerances.