

---

**Pasivne radiofrekvenčne (RF) in mikrovalovne naprave, meritve  
intermodulacijskega nivoja - 7. del: Terenska merjenja pasivne intermodulacije**

Passive RF and microwave devices, intermodulation level measurement - Part 7: Field  
measurements of passive intermodulation

Dispositifs RF et à micro-ondes passifs, mesure du niveau d'intermodulation - Partie 7:  
Mesures de l'intermodulation passive sur le terrain

**Ta slovenski standard je istoveten z: prEN IEC 62037-7:2026**

**oSIST prEN IEC 62037-7:2026**

<https://standards.iteh.ai/catalog/standards/sist/4d2b5280-f77e-44c3-984a-7d57a3ce3851/osist-pren-iec-62037-7-2026>

**ICS:**

33.120.01	Komponente in pribor na splošno	Components and accessories in general
-----------	------------------------------------	------------------------------------------

**oSIST prEN IEC 62037-7:2026****en**





# 46/1075/CDV

## COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 62037-7 ED2

DATE OF CIRCULATION:

2026-01-16

CLOSING DATE FOR VOTING:

2026-04-10

SUPERSEDES DOCUMENTS:

46/1053/CD, 46/1069A/CC

IEC TC 46 : CABLES, WIRES, WAVEGUIDES, RF CONNECTORS, RF AND MICROWAVE PASSIVE COMPONENTS AND ACCESSORIES

SECRETARIAT:

United States of America

SECRETARY:

Mr David Hess

OF INTEREST TO THE FOLLOWING COMMITTEES:

SC 46A, SC 46F

HORIZONTAL FUNCTION(S):

ASPECTS CONCERNED:

Electromagnetic Compatibility

☒ SUBMITTED FOR CENELEC PARALLEL VOTING☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING**Attention IEC-CENELEC parallel voting**

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.

The CENELEC members are invited to vote through the CENELEC online voting system.

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

**Passive RF and microwave devices, intermodulation level measurement – Part 7: Field measurements of passive intermodulation**

PROPOSED STABILITY DATE: 2030

NOTE FROM TC/SC OFFICERS:

## IEC CDV 62037-7 © IEC 2026

## CONTENTS

FOREWORD .....	3
1 Scope .....	5
2 Normative references .....	5
3 Terms, definitions and abbreviated terms .....	5
3.1 Terms and definitions .....	5
3.2 Abbreviated terms .....	6
4 General considerations .....	6
4.1 Test environment .....	6
4.2 Test frequencies .....	6
4.3 Safety .....	8
5 Field PIM test equipment .....	8
6 Test procedure .....	8
6.1 General .....	8
6.2 Equipment verification .....	8
6.2.1 General .....	8
6.2.2 Clean and inspect RF connections .....	8
6.2.3 Residual PIM test .....	8
6.2.4 PIM standard test .....	9
6.3 VSWR verification .....	9
6.4 Interference verification .....	9
6.5 Static PIM test .....	9
6.6 Dynamic PIM test .....	10
6.6.1 General .....	10
6.6.2 Coaxial cable assemblies .....	10
6.6.3 Coaxial connectors .....	10
6.6.4 Splitters, combiners, filters and receive low noise amplifiers .....	10
6.6.5 Antennas .....	10
7 Guidelines for minimizing generation of passive intermodulation .....	11
8 Test specification .....	12
9 Report .....	12
Annex A (informative) Distance-to-PIM measurements .....	13
Annex B (informative) Inbuilding distributed antenna systems .....	15
Annex C (informative) Method to estimate system noise rise based on PIM test measurements .....	22
Figure 1 – Example of poor test frequency selection .....	6
Figure 2 – Example of good test frequency selection .....	6
Table 1 – Guide for the design and installation of indoor and outdoor networks to minimize generation of passive intermodulation .....	10
Figure A.1 – Internal vs. external PIM sources .....	13

IEC CDV 62037-7 © IEC 2026

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## PASSIVE RF AND MICROWAVE DEVICES, INTERMODULATION LEVEL MEASUREMENT –

### Part 7: Field measurements of passive intermodulation

#### FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 62037-7 has been prepared by IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is an International Standard.