



SLOVENSKI STANDARD
oSIST prEN IEC 62037-8:2024
01-junij-2024

Pasivne radiofrekvenčne (RF) in mikrovalovne naprave, meritve intermodulacijskega nivoja - 8. del: Merjenje pasivne intermodulacije, ki jo ustvarjajo objekti, izpostavljeni sevanju RF

Passive RF and microwave devices, intermodulation level measurement - Part 8: Measurement of passive intermodulation generated by objects exposed to RF radiation

Passive HF- und Mikrowellengeräte, Intermodulationspegelmessung - Teil 8: Messung der passiven Intermodulation, verursacht durch Objekte, die HF-Strahlung ausgesetzt sind

Dispositifs RF et à micro-ondes passifs, mesure du niveau d'intermodulation - Partie 8: Mesure de l'intermodulation passive générée par des objets exposés au rayonnement RF

<https://standards.iteh.ai>

<https://standards.iteh.ai/catalog/standards/sist/06ac78ed-1924-401a-93d2-6ecbb7bac03a/osist-pren-iec-62037-8-2024>

Ta slovenski standard je istoveten z: prEN IEC 62037-8:2024

ICS:

33.120.10	Koaksialni kabli. Valovodi	Coaxial cables. Waveguides
33.120.30	Radiofrekvenčni konektorji (RF)	RF connectors

oSIST prEN IEC 62037-8:2024 **en**



46/993/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 62037-8 ED2

DATE OF CIRCULATION:

2024-04-05

CLOSING DATE FOR VOTING:

2024-06-28

SUPERSEDES DOCUMENTS:

46/951/CD, 46/984/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	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> 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.	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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 8: Measurement of passive intermodulation generated by objects exposed to RF radiation

PROPOSED STABILITY DATE: 2029

Copyright © 2024 International Electrotechnical Commission, IEC. All rights reserved. It is permitted to download this electronic file, to make a copy and to print out the content for the sole purpose of preparing National Committee positions. You may not copy or "mirror" the file or printed version of the document, or any part of it, for any other purpose without permission in writing from IEC.

NOTE FROM TC/SC OFFICERS:

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[oSIST prEN IEC 62037-8:2024](https://standards.iteh.ai/catalog/standards/sist/06ac78ed-1924-401a-93d2-6ccb7bac03a/osist-pren-iec-62037-8-2024)

<https://standards.iteh.ai/catalog/standards/sist/06ac78ed-1924-401a-93d2-6ccb7bac03a/osist-pren-iec-62037-8-2024>

CONTENTS

1		
2	FOREWORD	4
3	1 Scope	6
4	2 Normative references	6
5	3 Terms, definitions and abbreviated terms	6
6	3.1 Terms and definitions	6
7	3.2 Abbreviated terms	6
8	4 General considerations	7
9	4.1 Test environment	7
10	4.2 Safety	7
11	5 Test set-up	7
12	5.1 Test configurations	7
13	5.1.1 General	7
14	5.1.2 Antenna type	8
15	5.1.3 Antenna directivity	8
16	5.1.4 Antenna VSWR	8
17	5.1.5 Antenna polarization	9
18	5.1.6 DUT location	9
19	5.1.7 DUT orientation	10
20	5.2 Dynamic stimulus	11
21	5.3 Verification tests	11
22	5.3.1 Residual PIM verification	11
23	5.3.2 VSWR verification	11
24	6 Test specification	11
25	7 Report	11
26		
27	Figure 1 – Radiated PIM test set-up, single antenna, single band	7
28	Figure 2 – Radiated PIM test set-up, dual antenna, dual band	8
29	Figure 3 – Radiated PIM test set-up, dual antenna, single band	8
30	Figure 4 – Test zone definition	10
31	Figure 5 – Flat object definition	10
32	Figure 6 – Rotate antenna or DUT to change polarization	11
33		
34		

INTERNATIONAL ELECTROTECHNICAL COMMISSION

—————

**PASSIVE RF AND MICROWAVE DEVICES,
INTERMODULATION LEVEL MEASUREMENT –**
**Part 8: Measurement of passive intermodulation
generated by objects exposed to RF radiation**

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 62037-8 has been prepared by technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
46/902/FDIS	46/911/RVD

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

The language used for the development of this International Standard is English.