

STN	Pasívne vysokofrekvenčné a mikrovlnné zariadenia, meranie intermodulačnej úrovne Časť 8: Meranie pasívnej intermodulácie generovanej objektmi vystavenými VF žiareníu	STN EN IEC 62037-8 34 7705
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Passive RF and microwave devices, intermodulation level measurement - Part 8: Measurement of passive intermodulation generated by objects exposed to RF radiation

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/25

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 62037-8

May 2025

ICS 33.120.01

Supersedes EN IEC 62037-8:2022

English Version

**Passive RF and microwave devices, intermodulation level
measurement - Part 8: Measurement of passive intermodulation
generated by objects exposed to RF radiation
(IEC 62037-8:2025)**

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
(IEC 62037-8:2025)

Passive HF- und Mikrowellengeräte,
Intermodulationspegelmessung - Teil 8: Messung der
passiven Intermodulation, verursacht durch Objekte, die
HF-Strahlung ausgesetzt sind
(IEC 62037-8:2025)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62037-8:2025 (E)**European foreword**

The text of document 46/1039/FDIS, future edition 2 of IEC 62037-8, prepared by 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 IEC 62037-8:2025.

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IEC 62037-6:2021 NOTE Approved as EN IEC 62037-6:2022 (not modified)

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62037-1	-	Passive RF and microwave devices, intermodulation level measurement - Part 1: General requirements and measuring methods	EN IEC 62037-1	-



IEC 62037-8

Edition 2.0 2025-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**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
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Edition 2.0 2025-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Passive RF and microwave devices, intermodulation level measurement –
Part 8: Measurement of passive intermodulation generated by objects exposed
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**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**

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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**

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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.

This second edition cancels and replaces the first edition published in 2022. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) added safety warning to verify that transmitters are switched off before connecting or disconnecting any component;
- b) corrected formula for calculating directivity;
- c) corrected antenna orientation labels in Figure 6;
- d) added clarification that PIM tests reports shall include maximum PIM and VSWR values.

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

Draft	Report on voting
46/1039/FDIS	46/1045/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.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 62037 series, published under the general title *Passive RF and microwave devices, intermodulation level measurement*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

PASSIVE RF AND MICROWAVE DEVICES, INTERMODULATION LEVEL MEASUREMENT –

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

1 Scope

This part of IEC 62037 defines a radiated passive intermodulation (PIM) test to determine PIM levels generated by a device or object when it is exposed to RF radiation. This test can be conducted on any material or object and is not limited to devices designed to propagate RF signals. This test can be conducted as either a near field or far field test as defined by the test specification in an outdoor test site or in an anechoic test chamber.

2 Normative references

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IEC 62037-1, *Passive RF and microwave devices, intermodulation level measurement – Part 1: General requirements and measuring methods*

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