This is a preview of "BS EN IEC 62037-6:20...". Click here to purchase the full version from the ANSI store.



BSI Standards Publication

Passive RF and microwave devices, intermodulation level measurement

Part 6: Measurement of passive intermodulation in antennas



This is a preview of "BS EN IEC 62037-6:20...". Click here to purchase the full version from the ANSI store.

National foreword

This British Standard is the UK implementation of EN IEC 62037-6:2022. It is identical to IEC 62037-6:2021. It supersedes BS EN 62037-6:2013, which will be withdrawn on 25 July 2022.

The UK participation in its preparation was entrusted to Technical Committee EPL/46, Cables, wires and waveguides, radio frequency connectors and accessories for communication and signalling.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2022 Published by BSI Standards Limited 2022

ISBN 978 0 539 12628 0

ICS 33.040.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 March 2022.

Amendments/corrigenda issued since publication

Date Text affected

EN IEC 62027 6

This is a preview of "BS EN IEC 62037-6:20...". Click here to purchase the full version from the ANSI store.

EUROPÄISCHE NORM

January 2022

ICS 33.040.20

Supersedes EN 62037-6:2013 and all of its amendments and corrigenda (if any)

English Version

Passive RF and microwave devices, intermodulation level measurement - Part 6: Measurement of passive intermodulation in antennas (IEC 62037-6:2021)

Dispositifs RF et à micro-ondes passifs, mesure du niveau d'intermodulation - Partie 6: Mesure de l'intermodulation passive dans les antennes (IEC 62037-6:2021) Passive HF- und Mikrowellenbauteile, Messung des Intermodulationspegels - Teil 6: Messung der passiven Intermodulation in Antennen (IEC 62037-6:2021)

This European Standard was approved by CENELEC on 2021-12-28. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

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

EN IEC 62037-6:2022 (E)

This is a preview of "BS EN IEC 62037-6:20...". Click here to purchase the full version from the ANSI store.

European foreword

The text of document 46/838/FDIS, future edition 2 of IEC 62037-6, prepared by 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 IEC 62037-6:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022–09–28 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024–12–28 document have to be withdrawn

This document supersedes EN 62037-6:2013 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 62037-6:2021 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60068-2-75 NOTE Harmonized as EN 60068-2-75

IEC 62037-1 NOTE Harmonized as EN 62037-1

IEC 62037-3 NOTE Harmonized as EN 62037-3

ISO 2039-2 NOTE Harmonized as EN ISO 2039-2

This is a preview of "BS EN IEC 62037-6:20...". Click here to purchase the full version from the ANSI store.

CONTENTS

FC	DREWO	RD	3	
1	Scop	e	5	
2	2 Normative references		5	
3	Term	s, definitions and abbreviated terms	5	
	3.1	Terms and definitions		
	3.2	Abbreviated terms		
4	_	itions of antenna as it pertains to PIM		
•	4.1	Antenna		
	4.2	Antenna under test		
	4.3	Active antenna		
	4.4	Antenna PIM		
5		ina design and field installation considerations		
Ū	5.1	Environmental effects on PIM performance		
	5.2	Antenna interface connection		
	5.3	Mounting considerations to avoid PIM generation		
	5.4	Neighbouring sources of interference		
	5.5	Standard practices and guidelines for material selection		
6		neasurement considerations		
Ū	6.1	Quality assurance process and handling procedures		
	6.2	Measurement accuracy		
	6.3	Test environment		
	6.4	Safety		
	6.5	Test set-up.		
	6.5.1	Coaxial test cable assemblies		
	6.5.2 6.5.3	Defining a good low PIM reference load Test set-up and test site baseline PIM verification		
	6.6	PIM test configurations		
	6.7	Combined environmental and PIM testing		
	6.7.1	General		
	6.7.1	Mechanical considerations		
	6.7.2		_	
	6.8	Test system cables and connectors		
	6.8.1	General		
	6.8.2	RF absorber materials		
	6.8.3	Supporting structures and walls		
	6.8.4	RF shielding		
7		mic PIM measurement considerations		
	•			
	7.1	General		
	7.2	Dynamic testing methodology		
D:	7.3	Shocks test		
RI	biiograp	hy	14	
Fi	gure 1 –	Antenna reverse PIM test set-up	9	
Fi	Figure 2 – Antenna forward PIM test set-up10			
	Figure 3 – Hammer description13			
;	igare e i rammer description			