

BUREAU OF INDIAN STANDARDS

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मसौदा भारतीय मानक
निष्क्रिय आरएफ एवं सुक्ष्म-तरंग उपकरण,
इंटरमॉड्यूलेशन स्तर माप
भाग 1 सामान्य अपेक्षाएँ और मापन पद्धतियाँ
(पहला पुनरीक्षण)

Draft Indian Standard
Passive RF and microwave devices,
intermodulation level measurement –
Part 1 General requirements and measuring methods
(First Revision)

ICS 33.040.20

Wires, Cables, Waveguides & Accessories
Sectional Committee, LITD 06

Last Date for Comments:
01st November 2023

NATIONAL FOREWORD

(Formal clauses will be added later)

This draft Indian Standard(Part1) (*First Revision*) which is identical with IEC 62037-1: 2021 ‘Passive RF and microwave devices, intermodulation level measurement – Part 1: General requirements and measuring methods’ issued by the International Electrotechnical Commission (IEC) *will be* adopted by the Bureau of Indian Standards on the recommendations of the Dependability of Electronic, Electrical Components, Equipment and Systems Sectional Committee and approval of the Electronics and Information Technology Division Council.

This standard was originally published in 2021 and identical with IEC 62037-1: 2012. The first revision of this standard has been undertaken to align it with the latest version of IEC 62037-1-2021.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’, and
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted draft standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

<i>International Standards</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 62037 (all parts) Passive RF and microwave devices, intermodulation level measurement	IS/IEC 62037-1: 2012 Passive RF and microwave devices intermodulation level measurement Part 1 General requirements and measuring methods	Identical

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:2022‘Rules for rounding off numerical values (*revised*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Scope of IEC 62037-1: 2021 is as follows:

This part of IEC 62037 deals with the general requirements and measuring methods for intermodulation (IM) level measurement of passive RF and microwave components, which can be caused by the presence of two or more transmitting signals.

The test procedures given in this document give the general requirements and measurement methods required to characterize the level of unwanted IM signals using two transmitting signals.

The IEC 62037 series addresses the measurement of PIM, but does not cover the long-term reliability of a product with reference to its performance.

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NOTE– The Technical content of this document has not been enclosed as these are identical with the corresponding IEC Standard. For details please refer IEC 62037-1: 2021 or kindly contact.

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