

BUREAU OF INDIAN STANDARDS

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मसौदा भारतीय मानक
विद्युत का मापन माइक्रोवेव ट्यूब के गुण –
भाग 7: हाई-पावर क्लाइस्ट्रॉन
(पहला पुनरीक्षण)

Draft Indian Standard
Measurement of the Electrical
Properties of Microwave Tubes –
Part 7: High-Power Klystrons
(First Revision)

ICS No. : 31.100

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LITD 04: Electronic Display Devices and
systems Sectional Committee

Last Date for Comments: 10 Sept 2024

NATIONAL FOREWORD

(Formal clauses will be added later)

This Draft Indian Standard (Part 7) (First Revision) which is identical with IEC 60235-6:1972 'Measurement of the electrical properties of microwave tubes - Part 6: High-power klystrons' issued by the International Electrotechnical Commission (IEC) was adopted by the Bureau of Indian Standards on the recommendation of the Electronic Display Devices and systems Sectional Committee and approval of the Electronics and Information Technology Division Council.

This standard was first published in 1982 and was identical to IEC Pub 235-6:1972. The first revision of the Indian Standard has been taken up to align it with the existing version of IEC 60235-6:1972, there is a need to align the formatting and appearance of the standard as per the current practice.

The following changes has been required in the standards under this revision:

- a) Adding Front cover page.
- b) Addition of Hindi Title.
- c) National foreword to be written as current practice.
- d) UDC Number to be changed to ICS code.

Measurement of the electrical properties of microwave tubes are being covered in a series of standards consisting of the following individual parts:

Part 4: Magnetrons

Part 6: Low - Power Oscillator Klystrons

Part 8: Gas - Filled Microwave Switching Devices

Part 9: Crossed - Field Amplifier Tubes

Part 10: Crossed - Field Amplifier Tubes

Part 11: General Measurements

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions 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’
- 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.

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 (second revision)’. 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 the IEC 60235-6:1972

“This standard focuses on the measurement and characterization of various electrical parameters of high-power klystrons used in microwave applications. It provides guidelines and procedures for accurately measuring parameters such as power gain, frequency response, impedances, and efficiency.

IEC 60235-6 addresses the specific requirements and considerations for measuring high-power klystrons, which are essential components in high-frequency communications and radar systems. The standard ensures that appropriate measurement techniques are followed to evaluate the performance and reliability of klystron devices.

Overall, the scope of IEC 60235-6 is to establish a consistent and standardized approach for measuring the electrical properties of high-power klystrons, enabling accurate assessment and comparison of the performance of these devices in microwave applications.”

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Identical with IEC 60235-6:1972
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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 60235-6:1972 or kindly contact.

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