Doc No. : LITD 04 (21787) Draft IS 6134 (Part 11): 2024 Identical with IEC 60235-2:1972 [Superseding IS 6134 (Part 1, Part 2, Part 3 and Part 5)] April 2024

BUREAU OF INDIAN STANDARDS

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मसौदा भारतीय मानक विद्युत का मापन माइक्रोवेव ट्यूब के गुण – भाग 11: सामान्य मापन

Draft Indian Standard Measurement of the Electrical Properties of Microwave Tubes – Part 11: General Measurements

ICS: 31.100

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LITD 04: Electronic Display Devices and systems Sectional Committee

NATIONAL FOREWORD

(Formal clauses will be added later)

This Draft Indian Standard (Part 11) which is identical to IEC 60235-2:1972 'Measurement of the electrical properties of microwave tubes - Part 2: General measurements' issued by the International Electrotechnical Commission (IEC) *will be* 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.

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IS 6134 (Part 1):1978 was first published in 1979 and assistance were derived from IEC Pub 235-2: 1972, IEC Pub 235-2B: 1975 and IEC Pub 235-2G: 1876 'Measurement of electrical properties of microwave tubes Part 2: General measurements'.

IS 6134 (Part 2):1973 and IS 6134 (Part 3):1973 was first published in 1973 and assistance were derived from IEC Pub 235-2: 1972 'Measurement of electrical properties of microwave tubes Part 2: General measurements'.

IS 6134 (Part 5):1980 was first published in 1981 and assistance has been derived from IEC Publication 235-2A: 1974 and IEC Publication 235-2D: 1976 'Measurement of electrical properties of microwave tubes Part 2: General measurements'.

This superseding of IS 6134 (Part 1): 1978, IS 6134 (Part 2): 1973, IS 6134 (Part 3): 1973 and IS 6134 (Part 5): 1980 is being done to align all these standards with the new part of IS 6134-11:2024. On publication of this standard IS 6134 (Part 1): 1978, IS 6134 (Part 2): 1973, IS 6134 (Part 3): 1973 and IS 6134 (Part 5): 1980 will stands withdrawn.

The Amendment IEC 60235-2A, 2B, 2C, 2D and 2E published by International Electrotechnical Commission (IEC) will also been align with this standard at the end of this publication.

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: High-power klystrons Part 7: Gas-filled microwave switching devices Part 8: Backward-wave oscillator tubes - '0' type Part 9: Crossed-field amplifier tubes Part 10: Crossed - Field amplifier tubes

The text of IEC Standard *will be* 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.

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Scope of the IEC 60235-2:1972

"This standard IEC 60235-2, "Measurement of the Electrical Properties of Microwave Tubes –Part 2: General Measurements," pertains to the general requirements and precautions that apply when making measurements of the electrical properties of microwave tubes 1. It also covers the general methods of measurement for all devices and provides guidance for measuring oscillators and amplifier tubes 2.

IEC 60325-2 provides guidelines and procedures for measuring various electrical parameters, including power gain, frequency response, impedances, and efficiency 2. The standard ensures that appropriate measurement techniques are followed to evaluate the performance and reliability of microwave tubes used in various applications.

Overall, the scope of IEC 60235-2 is to establish a consistent and standardized approach for measuring the electrical properties of microwave tubes, providing an accurate assessment and comparison of their performance in microwave applications."

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 60235-2:1972 or kindly contact.

Head,

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