

(PREVIEW) IS : 6134 ( Part I ) - 1978

## *Indian Standard*

### METHODS OF MEASUREMENTS OF ELECTRICAL CHARACTERISTICS OF MICROWAVE TUBES

PART 1 COMMON TO ALL MICROWAVE TUBES

*( First Revision )*

#### 0. FOREWORD

**0.1** This Indian Standard (Part I) ( First Revision ) was adopted by the Indian Standards Institution on 8 December 1978, after the draft finalized by the Electron Tubes Sectional Committee had been approved by the Electronics and Telecommunication Division Council.

**0.2** The general conditions, precautions to be taken and methods of measurements common to all microwave tubes were originally covered in IS : 6134 (Part I/Sec 1)-1971\* and IS : 6134 (Part I/Sec 2)-1972†. A few of the measurements were still under consideration. This revision is undertaken to update the measurement procedures specified and also to include additional measurements taking into account the latest trend at International Electrotechnical Commission level.

**0.2.1** Methods of measurements of specific characteristics of individual types of microwave tubes like oscillator tubes, amplifier tubes are covered in individual standard in accordance with the details given below:

IS : 6134 ( Part II )-1973 Methods of measurement on microwave tubes: Part II Oscillator tubes.

IS : 6134 ( Part III )-1973 Methods of measurement on microwave tubes: Part III Amplifier tubes.

IS : 6134 ( Part V )-1978 Methods of measurements on microwave tubes: Part V Parasitic noise.

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\*Methods of measurement on microwave tubes: Part I General measurements, Section 1 General conditions and precautions for measurements.

†Methods of measurements on microwave tubes: Part I General measurements, Section 2 Common to all devices.

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**0.3** While preparing this standard assistance has been derived from the following IEC Publications, issued by International Electrotechnical Commission:

IEC Pub 235-2 ( 1972 ) Measurement of the electrical properties of microwave tubes: Part 2 General measurements

IEC Pub 235-2B ( 1975 ) Second supplement to Publication 235-2 ( 1972 )

IEC Pub 235-2G ( 1976 ) Third supplement to Publication 235-2 ( 1972 )

**0.4** In reporting the result of a test made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS : 2-1960\*.

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### **1. SCOPE**

**1.1** This standard ( Part I ) deals with methods of measurements of electrical characteristics which are common to all types of microwave tubes. This standard also covers general requirements and precautions to be taken, for making measurements on microwave tubes.

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\*Rules for rounding off numerical values ( revised).

†Electrotechnical vocabulary: Part IV Electron tubes, Section 1 Common terms.

‡Electrotechnical vocabulary: Part IV Electron tubes, Section 3 Microwave tubes.