

# Harmonized system of quality assessment for electronic components: Generic specification: Travelling wave amplifier tubes

The European Standard EN 135000:1992 has the status of a  
British Standard

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# Cooperating organizations

The Electronic Components Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following Government departments and scientific, industrial and consumer organizations:

- British Electrical and Allied Manufacturers' Association (BEAMA)
- Electricity Supply Industry in England and Wales
- Electronic Components Industry Federation\*
- Electronic Engineering Association
- Institution of Electronic and Radio Engineers
- Ministry of Defence\*
- National Supervising Inspectorate\*
- Post Office
- Society of British Aerospace Companies Limited\*
- Telecommunication Engineering and Manufacturing Association (TEMA)
- Trades Union Congress

The organizations marked with an asterisk in the above list were directly represented on the committee entrusted with the preparation of this British Standard.

This British Standard, having been prepared under the direction of the Electronic Components Standards Committee, was published under the authority of the Executive Board on 28 February 1978

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The following BSI references relate to the work on this standard:  
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## Amendments issued since publication

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# National foreword

This British Standard has been prepared under the direction of the Electronic Components Standards Committee. It is identical with CENELEC Electronic Components Committee (CECC) 35000 “*Harmonized system of quality assessment for electronic components: Generic specification: travelling wave amplifier tubes*”.

In 1992 the CENELEC Electronic Components Committee (CECC) accepted CECC 35000:1977 as European Standard EN 135000:1992. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN 135000 and any reference to BS CECC 35000 should be read as a reference to BS EN 135000.

This standard gives the terminology, quality assessment procedures and test and measurement procedures applicable to the family of travelling wave amplifier tubes with output power ratings not exceeding 500 watts.

Any blank detail specification dealing with a particular sub-family of travelling wave amplifier tubes required to be used in conjunction with this standard will select those tests which are considered appropriate to the sub-family and may also give more detailed information relative to the sub-family.

This standard is a harmonized specification within the CECC system. The existing non-harmonized British Standard BS 9025 “*Travelling wave amplifier tubes of assessed quality: Generic data and methods of test*” will eventually be superseded by this standard, but for a period both standards will remain in force because of current approvals to BS 9025. For the time being, until BS E9000 is published, specifications in the series are subject to the basic rules set down in BS 9000 “*General requirements for electronic components of assessed quality*”.

The British Standards Institution’s prescribed layout of a detail specification is given in Part 2 “*Data on generic and detail specifications*” of BS 9000.

**Cross references.** The British Standard harmonized with CECC 00100 is BS 9000 “*General requirements for electronic components of assessed quality*”. IEC 117 substantially agrees in technical content with BS 3939 “*Graphical symbols for electrical power, telecommunications and electronics diagrams*”.

For each of the following references to International Standards that is given in the text, there is a corresponding British Standard; these are as listed below:

| Reference to International Standard | Corresponding British Standard |                                                                                                                                                                  |
|-------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISO 1000:1973                       | BS 5555:1976                   | <i>SI units and recommendations for the use of their multiples and of certain other units</i>                                                                    |
| IEC 27-1:1971                       | BS 1991                        | <i>Letter symbols, signs and abbreviations</i><br>Part 6:1975 <i>Electrical science and engineering</i>                                                          |
| IEC 50 (Chapter 531)                | BS 4727                        | <i>Glossary of electrotechnical, power, telecommunication, electronics, lighting and colour terms</i><br>Part 1:Group 06:1973 <i>Electronic tube terminology</i> |
| IEC 68                              | BS 2011                        | <i>Basic environmental testing procedures</i>                                                                                                                    |
| IEC 134:1961                        | BS 3494                        | <i>Recommendations on semiconductor devices</i><br>Part 1:1967 <i>Essential electrical and mechanical ratings and characteristics</i>                            |
| IEC 410:1972                        | BS 6001:1972                   | <i>Sampling procedures and tables for inspection by attributes</i>                                                                                               |

| Reference to<br>International Standard | Corresponding<br>British Standard |                                                                                                                                                        |
|----------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| CECC 00006:1973                        | BS E9006:1976                     | <i>Harmonized system of quality<br/>assessment for electronic components.<br/>Basic specification: Environmental test<br/>procedures</i>               |
| CECC 00007:1973                        | BS E9007:1975                     | <i>Harmonized system of quality<br/>assessment for electronic components.<br/>Basic specification: Sampling plans for<br/>inspection by attributes</i> |

NOTE There is as yet no equivalent British Standard for IEC 151, IEC 235 or CECC 00107. The committee responsible for this standard has studied these and confirms that, for the purpose of this standard, their technical requirements are acceptable.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

**Compliance with a British Standard does not of itself confer immunity from legal obligations.**

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the EN title page, page 2, the CECC title page, page ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

