

Harmonized system of quality  
assessment for electronic components

# Generic specification: Photomultiplier tubes

The European Standard EN 114000:1991 has the status of a  
British Standard

# Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Electronic Components Standards Committee (ECL/-) to Technical Committee ECL/5 upon which the following bodies were represented:

- Electronic Components Industry Federation
- GAMBICA (BEAMA Ltd.)
- Ministry of Defence
- National Supervising Inspectorate
- United Kingdom Atomic Energy Authority

This British Standard, having been prepared under the direction of the Electronic Component Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 November 1984

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The following BSI references relate to the work on this standard:  
Committee reference ECL/5  
Draft for comment 80/29001 DC

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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) 14000:1984 *“Harmonized system of quality assessment for electronic components: Generic specification: Photomultiplier tubes”*.

In 1991 the CENELEC Electronic Components Committee (CECC) accepted CECC 14000:1984 as European Standard EN 114000:1991. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN 114000 and any reference to BS CECC 14000 should be read as a reference to BS EN 114000.

This standard gives the terminology, quality assessment procedures and test and measurement conditions applicable to the entire family of photomultiplier tubes. Any sectional and blank detail specification dealing with a particular sub-family of photomultiplier tubes required to be used in conjunction with this standard will include those tests that are considered appropriate to the sub-family and will also give more detailed information relative to the sub-family.

This standard is a harmonized specification within the CECC system.

**Terminology and conventions.** The text of the CECC specification has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

**Cross-references.** The British Standard which implements CECC 00100 is BS 9000 *“General requirements for a system for electronic components of assessed quality”*. Part 2:1983 *“Specification for national implementation of CECC basic rules and rules of procedure”*.

| International Standards | Corresponding British Standards                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISO 1000:1981           | BS 5555:1981 <i>Specification for SI units and recommendations for the use of their multiples and of certain other units</i><br>(Identical)                                                              |
| IEC 67:1966             | BS 448 <i>Dimensions of electronic tubes and valves</i><br>Part 1:1981 <i>IEC dimensions</i><br>(Identical)                                                                                              |
| IEC 68                  | BS 2011 <i>Basic environmental testing procedures</i><br>(The relevant Parts are all identical)                                                                                                          |
| IEC 117                 | BS 3939 <i>Graphical symbols for electrical power, telecommunications and electronics diagrams</i><br>Section 29:1978 <i>Aircraft electrical systems</i><br>(Technically equivalent)                     |
| CECC 00007:1973         | BS E9007:1975 <i>Specification for harmonized system of quality assessment for electronic components. Basic specification: Sampling plans and procedures for inspection by attributes</i><br>(Identical) |

The related British Standards for IEC 50 and IEC 410:1973 are BS 4727 and BS 6001:1972 respectively.

NOTE There are, at present, no corresponding British Standards for IEC 27, IEC 100, IEC 134, IEC 151 (Parts 1 and 15) IEC 306 (Parts 1 and 4) and IEC 462. The Committee responsible for this standard has studied these and confirm that, for the purposes 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, pages ii to iv, pages 1 to 18, 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.



Descriptors: Quality, electronic components, tubes

English version

## Generic Specification: Photomultiplier tubes

Spécification Générique:  
Tubes photomultiplicateurs

Fachgrundspezifikation:  
*Eine deutsche Version liegt zur  
Zeit nicht vor\**

This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 20 November 1991. The text of this standard consists of the text of CECC 14000 Issue 1 1984 of the corresponding CECC Specification. CENELEC members are bound to comply with CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the General Secretariat of the CECC or to any CENELEC member.

This European Standard exists in three official versions (English, French, German\*). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CECC General Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom. The membership of the CECC is identical, with the exception of the national electrotechnical committees of Greece, Iceland and Luxembourg.

## CECC

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B-1050 Brussels**



English version

Harmonized System of Quality Assessment for  
Electronic Components

GENERIC SPECIFICATION:

## PHOTOMULTIPLIER TUBES

Système Harmonisé d'Assurance de la Qualité  
des Composants Electroniques

SPECIFICATION GENERIQUE:

## TUBES PHOTOMULTIPLICATEURS



# 1

Issue  
Edition  
Ausgabe

## CECC 14000

1984



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