

European Committee for Electrotechnical Standardization (CENELEC)
Cenelec Electronic Components Committee

CECC



Système Harmonisé d'Assurance de la Qualité
des Composants Electroniques

SPECIFICATION PARTICULIERE CADRE:

TUBES DE PRISE
DE VUES

Harmonized System of Quality Assessment for
Electronic Components

BLANK DETAIL SPECIFICATION:

CAMERA TUBES

1

Edition
Issue
Ausgabe

CECC 13001

1980



Documents

Document Sharing Hub

Information about the System can be obtained from:



CECC General Secretariat
Stresemannallee 21
D-6000 Frankfurt/Main 70
Telefon (0611) 6 30 82 83
Telex 04-12871

or from the National Authorized Institutions
of the Member Countries listed
who can supply copies of:

1 The Basic Rules and Rules of
Procedure of the CECC

2 CECC and National Specifications
for the System

3 CECC 00 200: Qualified Products List (QPL)
(biannual issues January and July,
with three-monthly amendments)

4 CECC 00 300: CECC Publications and their
related national documents (biannual)

Belgium

Comité Electrotechnique Belge
Galerie Ravenstein 3
B-1000 Brussels

Denmark

Dansk Elektroteknisk Komite
Strandgade 36 set
DK-1401 Copenhagen K

France

Union Technique de l'Electricité
Participation française au CECC
12 Place des Etats-Unis
F-75783 Paris Cedex 16

Germany

Deutsche Elektrotechnische Kommission
im DIN und VDE
Stresemannallee 21
D-6000 Frankfurt/Main 70

Ireland

Electrotechnical Council of Ireland
The Industrial Research Centre
Ballymun Road
Dublin 9

Italy

Comitato Elettrotecnico Italiano
Viale Monza 259
I-20126 Milan

Netherlands

Nederlands Elektrotechnisch Comité
Polakweg 5
NL-2280 HV Rijswijk (ZH)

Norway

Norsk Elektroteknisk Komite
PO Box 7099
Homansbyen
N-Oslo 3

Sweden

Svenska Elektriska Kommissionen
Box 5177
S-10244 Stockholm

Switzerland

Comité Electrotechnique Suisse
Seefeldstrasse 301
CH-8008 Zürich

United Kingdom

British Electrotechnical Committee
British Standards Institution
2 Park Street
London W1A 2BS

Key for page 3

The numbers between square brackets on page 3 correspond to the following indications which should be given:

Identification of the detail specification

- [1] The name of the National Standards Organization under whose authority the detail specification is drafted
- [2] The CECC Symbol and the number allotted to the national detail specification by the CECC General Secretariat
- [3] The number and issue number of the national generic and sectional specifications
- [4] The national number of the detail specification, date of issue and any further information required by the national system, together with any amendment numbers if issued.

Identification of the component

- [5] A short description of the type of component
- [6] Information on typical construction (where applicable)
- [7] Outline drawing and/or reference to the relevant document for outlines
- [8] Application or group of applications covered (see note below)
- [9] Reference data on the most important properties, to allow comparison between the various component types.

NOTE

When a device is so designed that it can satisfy several applications, this should be stated in the detail specification, in which case the characteristics and inspection requirements relevant to these applications should be met simultaneously (these may appear in different columns of a detail specification or in different detail specifications, as the case may be).

Operating conditions and typical characteristics

	Min	Max	Units
Heater current at $V_f = *V$	*	*	mA
Scanned area dimensions	*X*		mm
Alignment coil current or field		*	*

When the tube is operated under the conditions given below, the characteristic values which follow them are attainable:

$V_{g1} = *V$	focus field = * Tesla
$V_{g2} = *V$	scan standards *
$V_{g3} = *V$	faceplate temperature = * °C
$V_{g4} = *V$	

(or electrodes as designated on Page 3)

At least one of the following conditions shall be inserted in the detail specification:

(1) Signal electrode voltage set to obtain dark current

$I_d = * \text{ nA}$ * * V

Faceplate illuminance, $E = * \text{ lx}$

Signal current * * nA

Resolution, expressed as the percentage modulation of a grating pattern given in line pairs per mm, TV lines or MHz

* %

Decay lag, expressed as the percentage of the signal amplitude ... * ms after termination of illumination

* %

(2) Signal electrode voltage set to obtain signal current

$I_S = * \text{ nA}$ at faceplate illuminance $E = * \text{ lx}$ * * V

Dark current * nA

Resolution, expressed as the percentage modulation of a grating pattern given in line pairs per mm, TV lines or MHz

* %

Decay lag, expressed as the percentage of the signal amplitude ... * ms after termination of illumination

* %

* denotes that a value or unit shall be inserted in the detail specification.

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	Min	Max	Units
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(3) Signal electrode voltage set to * volts
Faceplate illuminance $E = * \text{ lx}$

Signal current	*	*	nA
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Dark current		*	nA
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Resolution, expressed as the percentage modulation
of a grating pattern given in line pairs per mm,
TV lines or MHz.

*	%
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Decay lag, expressed as the percentage of the signal
amplitude ... * ms after termination of illumination

*	%
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* Denotes that a value shall be inserted in the detail specification.

Marking See 2.4 of CECC 13 000.

Ordering information

Related document — CECC 13 000: Camera Tubes.

Structural similarity

X-radiation A warning note on hazards to health, and recommended safeguards

Additional information A manufacturer may, at his discretion, give
Advice on mounting the tube

Deflection coil position

Recommendation on impedance of associated circuits

Recommendations for shielding from magnetic fields and for location and orientation of
magnetic components in the vicinity of the tube

Advice on the operation of the tube for correct or best performance, including alignment
procedure

Graphs on characteristic relationships and, (if applicable), optical characteristics of the
faceplate.

TEST CONDITIONS AND INSPECTION REQUIREMENTS

These are given in the following tables. The test conditions to be used shall be specified
in the detail specification as required for a given type, in line with the requirements given in
CECC 13 000 for the relevant test.

All references to clause numbers are made with respect to CECC 13000 unless otherwise
stated.