

Förderverein für Elektrotechnische Normung (FEN) e. V.
Cenelec Electronic Components Committee

CECC

Système Harmonisé d'Assurance de la Qualité
des Composants Electroniques

SPECIFICATION PARTICULIERE:
CONDENSATEURS ELECTROLYTIQUES
A L'ALUMINIUM A ELECTROLYTE
NON SOLIDE

Harmonized System of Quality Assessment for
Electronic Components

DETAIL SPECIFICATION:
ALUMINIUM ELECTROLYTIC
CAPACITORS WITH NON-SOLID
ELECTROLYTE

Harmonisiertes Gütebestätigungssystem für
Bauelemente der Elektronik

BAUARTSPEZIFIKATION:
ALUMINIUM-ELEKTROLYT-
KONDENSATOREN MIT FLÜSSIGEM
ELEKTROLYTEN



1

Edition
Issue
Ausgabe

CECC 30301-801

1988

Cette page bleue doit être insérée après la page de garde de la CECC 30 301-801 Edition 1 (1988)

AMENDEMENT 1 A LA CECC 30 301-801:

SPECIFICATION PARTICULIERE:

CONDENSATEURS ELECTROLYTIQUES A L'ALUMINIUM A ELECTROLYTE NON SOLIDE

Supprimer les pages 2/3 et insérer les nouvelles pages 2/3.
(Le titre du paragraphe 1.1 a été supprimé et le nouveau titre a été inséré).

Enregistrer cette modification sur la feuille jaune "Enregistrement des modifications".

Le texte de cette modification a été soumis au vote du CECC dans le document indiqué ci-dessous et a été ratifié par le Président du CECC pour être publié.

Document: CECC(Secretariat)2491
Date de vote: Février 1990
Rapport de vote: CECC(Secretariat)2653

CECC 30 301-801 Edition 1 Amendement 1 (1991)

This blue page should be inserted after the title page of CECC 30 301-801 Issue 1 (1988)

AMENDMENT 1 TO CECC 30 301-801:

DETAIL SPECIFICATION:

ALUMINIUM ELECTROLYTIC CAPACITORS WITH NON-SOLID ELECTROLYTE

Remove pages 2/3 and insert the new pages 2/3.
(The title of clause 1.1 has been deleted and the new title inserted).

Enter this amendment on the yellow "Record of amendments" sheet.

The text of this amendment was circulated to the CECC for voting in the document indicated below and was ratified by the President of the CECC for publication.

Document: CECC(Secretariat)2491
Date of voting: February 1990
Report on the voting: CECC(Secretariat)2653

CECC 30 301-801 Issue 1 Amendment 1 (1991)

Dieses blaue Blatt ist nach dem Titelblatt der CECC 30 301-801 Ausgabe 1 (1988) einzufügen

ÄNDERUNG 1 ZU CECC 30 301-801:

BAUARTSPEZIFIKATION:

ALUMINIUM-ELEKTROLYT-KONDENSATOREN MIT FLÜSSIGEM ELEKTROLYTEN

Die Seiten 2/3 sind herauszunehmen und durch die neuen Seiten 2/3 zu ersetzen.
(Der Titel von Abschnitt 1.1 wurde durch den neuen Titel ersetzt).

Diese Änderung ist auf dem gelben Blatt "Verzeichnis der Änderungen" einzutragen.

Der Text dieser Änderung wurde dem CECC mit dem unten aufgeführten Schriftstück zur Abstimmung vorgelegt und vom Präsidenten des CECC zur Veröffentlichung freigegeben.

Schriftstück: CECC(Sekretariat)2491
Abstimmungsdatum: Februar 1990
Abstimmungsbericht: CECC(Sekretariat)2653

CECC 30 301-801 Ausgabe 1 Änderung 1 (1991)

FOREWORD

The CENELEC Electronic Components Committee (CECC) is composed of those member countries of the European Committee for Electrotechnical Standardization (CENELEC) who wish to take part in a harmonized System for electronic components of assessed quality.

The object of the System is to facilitate international trade by the harmonization of the specifications and quality assessment procedures for electronic components, and by the grant of an internationally recognized Mark, or Certificate, of Conformity. The components produced under the System are thereby accepted by all member countries without further testing.

This specification should be read in conjunction with the current regulations for the CECC System.

At the date of printing of this specification, the member countries of the CECC are Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom, and copies of it can be obtained from the addresses shown on the blue fly sheet.

PREFACE

This specification was prepared by CECC WG 3 "Capacitors".

It is based, wherever possible, on the Publications of the International Electrotechnical Commission.

The text of this detail specification was circulated to the members of CECC WG 3 and was approved for publication under the accelerated procedure for the acceptance of detail specifications in accordance with Decision 10 of the minutes of the CECC CD in document CECC(Secretariat)1838.

SECRETARIAT NOTE

This detail specification was originally drafted by members of CEMEC WG PC 1A detail specification was discussed as document

CECC/WG3(Sec)157 - CECC 30 301-801 Issue 1

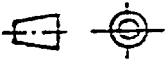
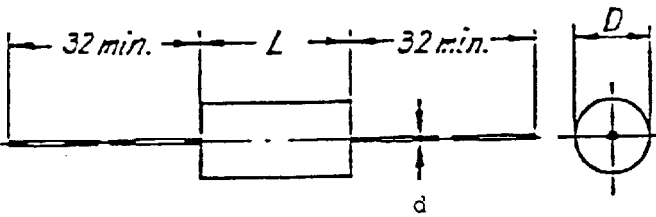
by WG 3 at its last meeting in Munich in 1988 with the decision to publish a revised version without voting.

The revision was carried out by a German delegate of WG 3.

To allow early publication, this detail specification is issued initially in English only.

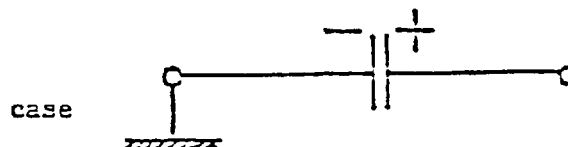
Corresponding versions in French and German will follow on request of ONHS.

CECC 30 301-801 Issue 1

Specification available from: CECC General Secretariat	CECC 30 301- 801 (Issue 1) 1988 
ELECTRONIC COMPONENTS OF ASSESSED QUALITY - DETAIL SPECIFICATION IN ACCORDANCE WITH: CECC 30 000 Issue 3, Amdts. 1 to 5 CECC 30 300 Issue 2	
First angle projection  Outline and dimensions  All dimensions in mm. Values for d, D and L see table 1. Other shapes are permitted within the dimensions given. For taped versions, the requirements of IEC 286-1 are to be applied. The polarity shall be clearly marked.	WG-DETAIL SPECIFICATION FOR FIXED ALUMINIUM ELECTRO- LYTIC CAPACITORS WITH NON-SOLID ELECTROLYTE Polar Cylindrical Metallic case Insulated Axial terminations Assessment level E

QUICK REFERENCE DATA: Rated capacitance (C_R) range: 1 to 4 700 μF
 Capacitance tolerance: -10/+50 %
 Rated voltage (U_R) range: 10 to 385 V d.c.
 Climatic category: 40/085/56
 Performance grade: long life grade 5000 h

Circuit diagram



Information about manufacturers who have components qualified to this detail specification is available in the current CECC 00 200: Qualified Products List

It is intended that this specification should replace national specifications. Relevant numbers will be submitted by the national committees and published under issue 2 of this specification.

1. GENERAL DATA

1.1 Method of mounting for vibration and bump or shock tests

The capacitors are to be mounted by their wire leads at a distance of 6 mm $\pm$ 1 mm from the case. Capacitors with a case size exceeding DC shall be additionally clamped by the case. See 1.3.2 of CECC 30 300 Issue 2.

1.2 DIMENSIONS

Table 1

case size reference	Dimensions (mm)		
	D max. 2)	L max. 2)	d nominal
AA	7,5	22	0,6 to 0,8
BA	9,5		
CA	11		
CB		27	
DC	13,5	32	0,8
EC	15,5		
FC	17		
GC	19		
GD		42	
HD	23		0,8 to 1,0
JD	26,5		

2) including insulation sleeve.

1.3 RATINGS AND CHARACTERISTICS

Capacitance range	1 to 4 700 μ F
Tolerance on rated capacitance	-10/+50 %
Rated voltage range	10 to 385 V d.c.
Category voltage	rated voltage
Climatic category	40/085/56
Rated temperature	85 °C
Rated ripple current	see Table 2B and sub-clause 1.8
Tangent of loss angle	see Table 2B
Leakage current	see Table 2B
Impedance	see Table 2B
Maximum reverse voltage	2 V

Table 2A

Values of capacitance and voltage related to case size

rated voltage (V)	10	16	25	40	63	100	200	385
rated capacitance (μF)	diameter (mm) x length (mm) case size reference							
1						7,5x22 AA	7,5x22 AA	7,5x22 AA
2,2						7,5x22 AA	9,5x22 BA	9,5x22 BA
4,7					7,5x22 AA	9,5x22 BA	11x22 CA	11x27 CB
10				7,5x22 AA	9,5x22 BA	9,5x22 BA	11x27 CB	13,5x32 DC
22			7,5x22 AA	9,5x22 BA	9,5x22 BA	11x27 CB	15,5x32 EC	19x32 GC
47	7,5x22 AA	9,5x22 BA	9,5x22 BA	9,5x22 BA	11x27 CB	13,5x32 DC	17x32 FC	19x42 GD
100	9,5x22 BA	9,5x22 BA	11x22 CA	11x27 CB	13,5x32 DC	17x32 FC	23x42 HD	
220	11x27 CB	11x27 CB	13,5x32 DC	13,5x32 DC	17x32 FC	19x42 GD		
470	13,5x32 DC	13,5x32 DC	15,5x32 EC	17x32 FC	23x42 HD	26,5x42 JD		
1 000	15,5x32 EC	17x32 FC	19x32 GC	23x42 HD	26,5x42 JD			
2 200	19x42 GD	19x42 GD	23x42 HD	26,5x42 JD				
4 700	23x42 HD	26,5x42 JD						