

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 FIXES AU
TANTALE POUR MONTAGE EN
SURFACE A ELECTROLYTE
SOLIDE ET A ANODE POREUSE**

Harmonized System of Quality Assessment for
Electronic Components

DETAIL SPECIFICATION:
**FIXED TANTALUM SURFACE
MOUNTING CAPACITORS WITH
SOLID ELECTROLYTE,
POROUS ANODE**

Harmonisiertes Gütebestätigungssystem für
Bauelemente der Elektronik

BAUARTSPEZIFIKATION:
**OBERFLÄCHENMONTIERBARE
TANTAL-FESTKONDENSATOREN
MIT FESTEM ELEKTROLYT UND
SINTERANODE**



1

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CECC 30 801-801

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Information about the System may be obtained from:



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and
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or from the National Authorized Institutions
of the participating countries listed
who can supply copies of:

- 1 The Internal Regulations of the FEN e.V.
- 2 The Rules of Procedure of the System
- 3 CECC Specifications of the FEN and National Specifications for the System
- 4 CECC 00 200: Qualified Products List (QPL)
- 5 CECC 00 300: CECC Publications and their related national documents
- 6 Other CECC Publications and publicity documents

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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 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 Decisions 10, 11 and 12 of the minutes of the CECC CD meeting in document CECC(Secretariat)1838.

Secretariat Note:

The document was originally drafted by members of CECC WG 3 and discussed as

document CECC/WG3(Secretariat)200

by WG 3 at its meeting in Paris in 1989 with the decision to publish it without voting (item 7.1).

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.

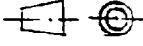
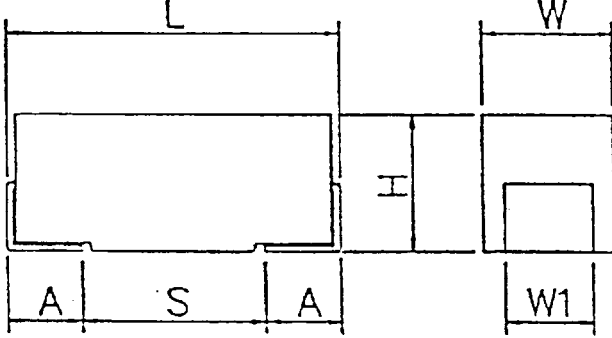
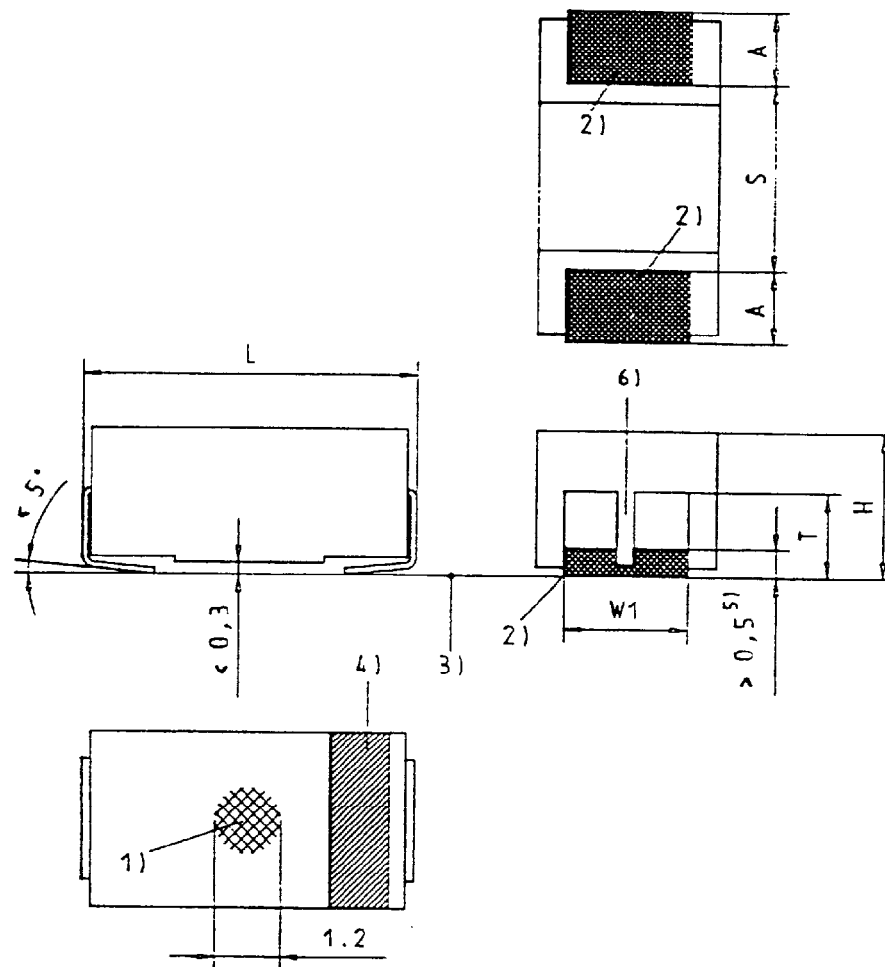
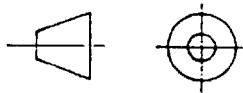
HARMONISED DETAIL SPECIFICATION	CECC 30 801-801 										
Specification available from:- CECC General Secretariat	ISSUE 1 1990										
ELECTRONIC COMPONENTS OF ASSESSED QUALITY DETAIL SPECIFICATION IN ACCORDANCE WITH CECC 30 000 Issue 3 1983 CECC 30 800 Issue 2 1990	MANUFACTURERS' TYPE NUMBERS See CECC 00 200 For ordering information see 1.6										
Outline and dimensions First angle projection  <u>Figure 1</u>  (Other shapes are permitted within the dimensions given) Marking information: See 1.5 For details see Figure 2 and Table 1	DETAIL SPECIFICATION FOR FIXED TANTALUM SURFACE MOUNTING CAPACITORS WITH SOLID ELECTROLYTE, POROUS ANODE POLAR SOLID ELECTROLYTE METALLIC TERMINATIONS STYLE I - PROTECTED SUITABLE FOR SURFACE MOUNTING ASSESSMENT LEVEL : E										
QUICK REFERENCE DATA: <table> <tbody> <tr> <td>Rated capacitance range</td><td>0,1 to 100 μF</td></tr> <tr> <td>Capacitance tolerances</td><td>+ 10%, + 20%</td></tr> <tr> <td>Rated voltage range</td><td>4 to 50 V d.c.</td></tr> <tr> <td>Climatic category</td><td>55/125/56</td></tr> <tr> <td>Performance level</td><td>Long life</td></tr> </tbody> </table>		Rated capacitance range	0,1 to 100 μ F	Capacitance tolerances	+ 10%, + 20%	Rated voltage range	4 to 50 V d.c.	Climatic category	55/125/56	Performance level	Long life
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Rated voltage range	4 to 50 V d.c.										
Climatic category	55/125/56										
Performance level	Long life										
Information about manufacturers who have components qualified to this detail specification is available in the current CECC 00 200: Qualified Products List											

Figure 2

First angle projection:

Notes

- For detailed dimensions see Table 1
- Dimensions in mm
- 1) Area on upper surface of the capacitor to allow vacuum pick-up.
- 2) Area to be examined after solderability test.
- 3) Substrate.
- 4) Area for polarity mark.
- 5) Dimension W1 applies to the shaded area only.
- 6) This notch is an optional feature.

1 General data1.1 Methods of mounting

For normal use the capacitors may be mounted by hand soldering, infra-red soldering, wave soldering or condensation soldering.
For tests carried out in accordance with Table 4B Group C3 the mounting shall be in accordance with 4.3 of CECC 30 800 using glass-epoxy FR4 printed board 1,6 mm thick.

1.2 Dimensions

Table 1

Case Size	Dimensions (in mm)						
Reference	L	W	H	Wl	A	S min.	T min.
A	$3,2 \pm 0,2$	$1,6 \pm 0,2$	$1,6 \pm 0,2$	$1,2 \pm 0,1$	$0,8 \pm 0,3$	1,1	0,7
B	$3,5 \pm 0,2$	$2,8 \pm 0,2$	$1,9 \pm 0,2$	$2,2 \pm 0,1$	$0,8 \pm 0,3$	1,4	0,7
C	$6,0 \pm 0,3$	$3,2 \pm 0,3$	$2,5 \pm 0,3$	$2,2 \pm 0,1$	$1,3 \pm 0,3$	2,9	1,0
D	$7,3 \pm 0,3$	$4,3 \pm 0,3$	$2,8 \pm 0,3$	$2,4 \pm 0,1$	$1,3 \pm 0,3$	4,1	1,0

Notes: Dimension Wl applies over length T min and A.

The minimum value specified for S implies that the full ranges of tolerances for L and A may not be simultaneously available.

1.3 Rating and characteristics

Capacitance range	See Table 2A
Tolerance on rated capacitance	$\pm 10\%$, $\pm 20\%$
Rated voltage	See Table 2A
Category voltage	See Table 2A
Climatic category	55/125/56
Rated temperature	85°C
Variation of capacitance with temperature	See Table 2B
Tangent of loss angle	See Table 2B
Leakage current (μA) max.	See Table 2B
Impedance at 100 kHz and 20°C	See Table 2C
Surge voltage	$1,3 U_R$ or $1,3 U_C$ as applicable