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Specification available from :
AS SHOWN IN PD 9002, CECC 00200 AND
STANDARD TELEPHONES AND CABLES plc.
STC COMPONENTS
CAPACITORS, BRIXHAM ROAD, PAIGNTON, DEVON

BS CECC 30 201 - 017
ISSUE 2
DATE MAR. 1984
Number of pages 16

ELECTRONIC COMPONENTS OF ASSESSED QUALITY
DETAIL SPECIFICATION IN ACCORDANCE WITH :
CECC 30000 1975
CECC 30200 1975

MANUFACTURER'S TYPE NUMBER

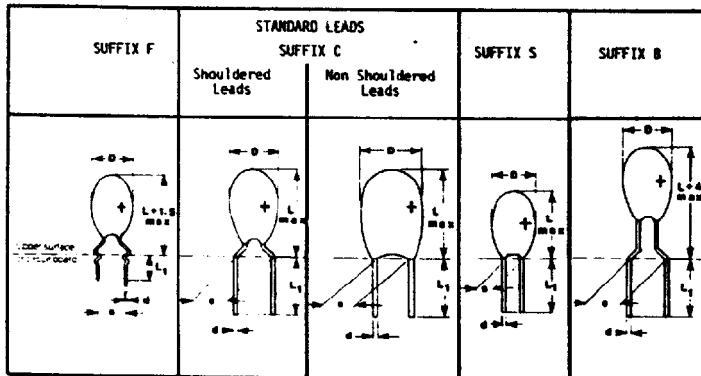
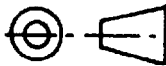
TAP

SEE PD 9002 AND CECC 00200

For Ordering Information
See Clause 6

Outline and dimensions

Third angle
projection



TANTALUM ELECTROLYTIC
POLAR
SOLID ELECTROLYTE
RESIN DIPPED
RADIAL TERMINATIONS

Complies with the minimum
requirements of TABLES 2 & 3
of BS CECC 30200 Issue 1

See TABLE 1 and page 2 for detailed dimensions.

Marking Information - See Clause 5.

TABLE 1 DIMENSIONS RELATED TO CASE SIZE (Dimensions are in mm.)

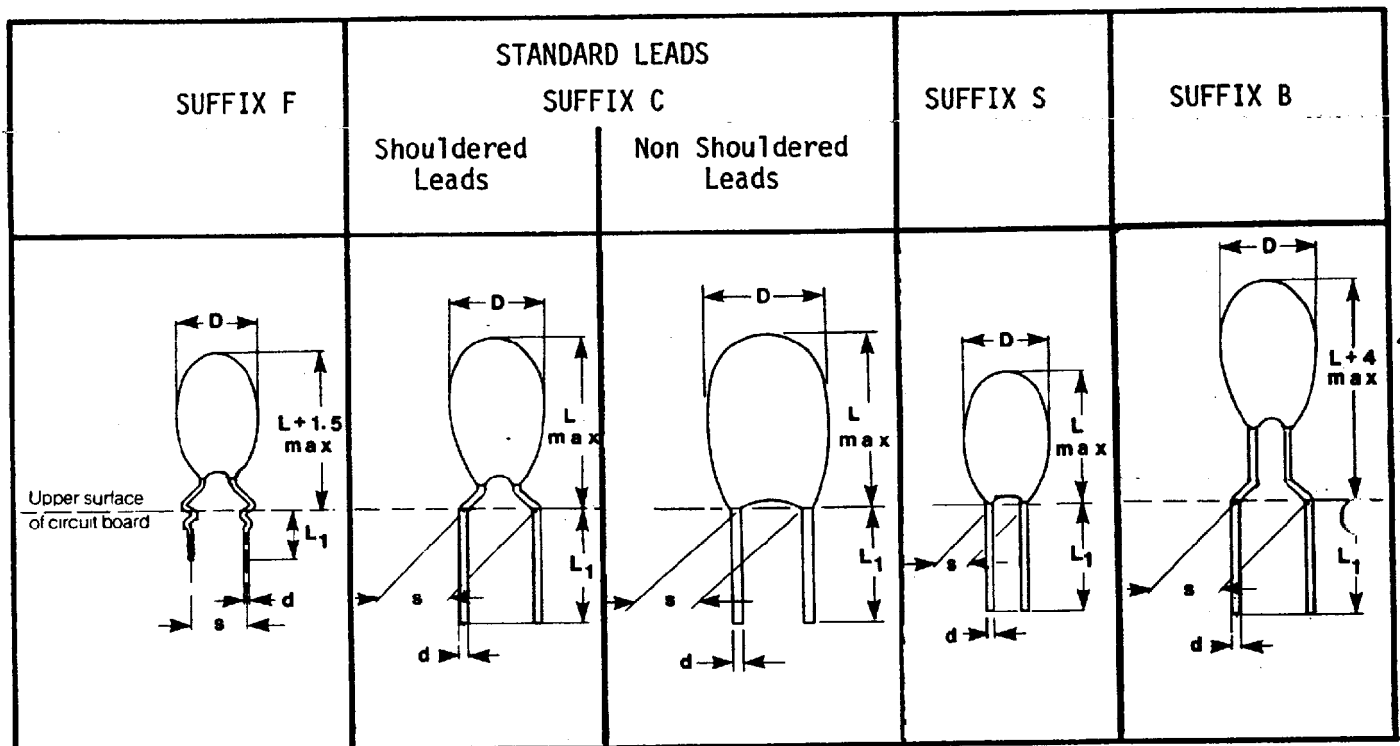
CASE SIZE REFERENCE	L	D max.	Typical weight g	CASE SIZE REFERENCE	L	D max.	Typical weight g
2	9.0	4.5	0.2	9	13.0	8.0	0.5
3	9.5	5.0	0.2	10	14.0	8.5	0.6
4	10.0	5.0	0.2	11	14.0	9.0	0.8
5	11.0	5.5	0.3	12	14.5	9.0	1.0
6	11.5	6.0	0.3	13	16.0	9.0	1.5
7	12.0	6.0	0.4	14	17.0	10.0	2.0
8	12.0	7.0	0.5	15	18.5	10.0	3.0
				16	19.0	10.0	4.5

NOTES A The wire terminations of capacitors with leads less than 6mm long are classed as rigid.

B This specification supercedes:- BS CECC 30 201-017 Issue 1
BS CECC 30 201-021
BS 9073 F002
BS 9073 F005

Refer to Qualified Products List PD 9002 and/or CECC 00200 for details of
Manufacturers approved to this specification

BS CECC 30 201 - 017
 ISSUE 2
 DATE MAR 1984



DETAILED DIMENSIONS (All dimensions in mm)

SUFFIX	L_1	s	d
F	$4.5 \begin{smallmatrix} +1.5 \\ -1.5 \end{smallmatrix}$	$5.0 \begin{smallmatrix} +1.0 \\ -0.5 \end{smallmatrix}$	0.45 ± 0.10
C	16 ± 4	5.0 ± 1.0	0.50 ± 0.05
S	16 ± 4	2.5 ± 1.0	0.45 ± 0.10
B	16 ± 4	5.0 ± 1.0	0.50 ± 0.05

NOTE: Lead lengths may be supplied to tolerances other than those above and should be specified in the ordering information.

2.0 SPECIFIED METHOD OF MOUNTING FOR VIBRATION AND SHOCK TESTING

The capacitors shall be mounted by clamping the body and the terminations.

3.0 RATINGS AND CHARACTERISTICS

Capacitance range (E6 series as standard)	- See TABLE 2A
Capacitance tolerance	- $\pm 10\%$, $\pm 20\%$ as standard
Rated voltage	- See TABLE 2A
Rated temperature	- 85°C
Leakage current	- See TABLE 2B
Tangent of loss angle	- See TABLE 2B
Impedance	- See TABLE 2C
Climatic category	- -55/85/21
Surge voltage	- See TABLE 3A
Typical ripple ratings	- See TABLE 3B

BS CECC
ISSUE
DATE

30 201 - 017
2
MAR 1984

TABLE 2A CAPACITANCE AND VOLTAGE RELATED TO CASE SIZE

CAP μ F $\backslash$ U _R	6.3	10	16	20	25	35	50
0.10						2	2
0.15						2	2
0.22						2	2
0.33						2	2
0.47						2	2
0.68						2	2
1.0					2	2	4
1.5				2	2	2	5
2.2			2	2	2	3	5
3.3		2	2	3	3	4	7
4.7	2	2	3	4	4	5	8
6.8	2	3	4	5	5	6	8
10	3	4	5	6	6	7	9
15	4	5	6	7	7	8	10
22	5	6	7	8	8	10	11
33	6	7	7	9	9	12	
47	7	8	9	10	12	13	
68	8	9	11	13	13		
100	9	11	13	13			
150	11	13	13				
220	12	14	15				
330	14	15					
470	15						
680	16						

TABLE 2B CHARACTERISTICS AT HIGH AND LOW TEMPERATURES

Test Temperature	Capacitance Change	Tangent of Loss Angle	Leakage Current	Impedance
Room Temperature $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$	Reference Value	As Table2B1	As Table2B2	As Table 2C
$-55^{\circ}\text{C} \pm 2^{\circ}\text{C}$	$\leq 10\%$ max	As Table2B1	N/A	As Table 2C
$85^{\circ}\text{C} \pm 2^{\circ}\text{C}$	$\leq 15\%$ max	As Table2B1	10xRequirement of Table2B2	N/A

TABLE 2B1 MAXIMUM VALUES OF TANGENT OF LOSS ANGLE

Capacitance Value	Tangent of Loss Angle
$\leq 1.5 \mu\text{F}$	0.04
$\geq 2.2 \mu\text{F}$ and $\leq 6.8 \mu\text{F}$	0.06
$\geq 10 \mu\text{F}$ and $\leq 68 \mu\text{F}$	0.08
$\geq 100 \mu\text{F}$	0.10