

BRITISH STANDARDS INSTITUTION
2 PARK STREET, LONDON, W1A 2BS



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

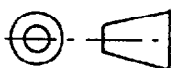
BS CECC 30 201 - 027
ISSUE 1
DATE SEPT. 1983
Number of pages 16

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

MANUFACTURER'S TYPE NUMBER
TAG

Outline and dimensions

Third angle
projection

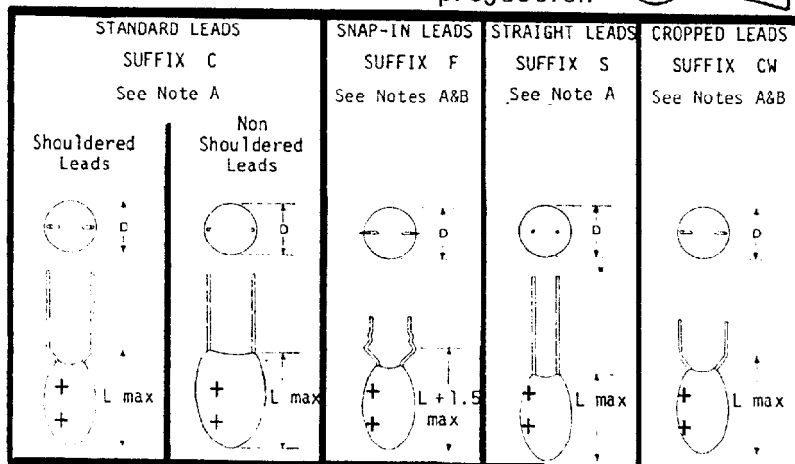


SEE PD 9002 AND CECC 00200

For Ordering Information
See Clause 6

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	13.5	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	9.5	1.5
7	12.0	6.5	0.4	14	17.0	10.0	2.0
8	12.5	7.5	0.5	15	18.5	10.0	3.0
				16	21.0	10.0	4.5

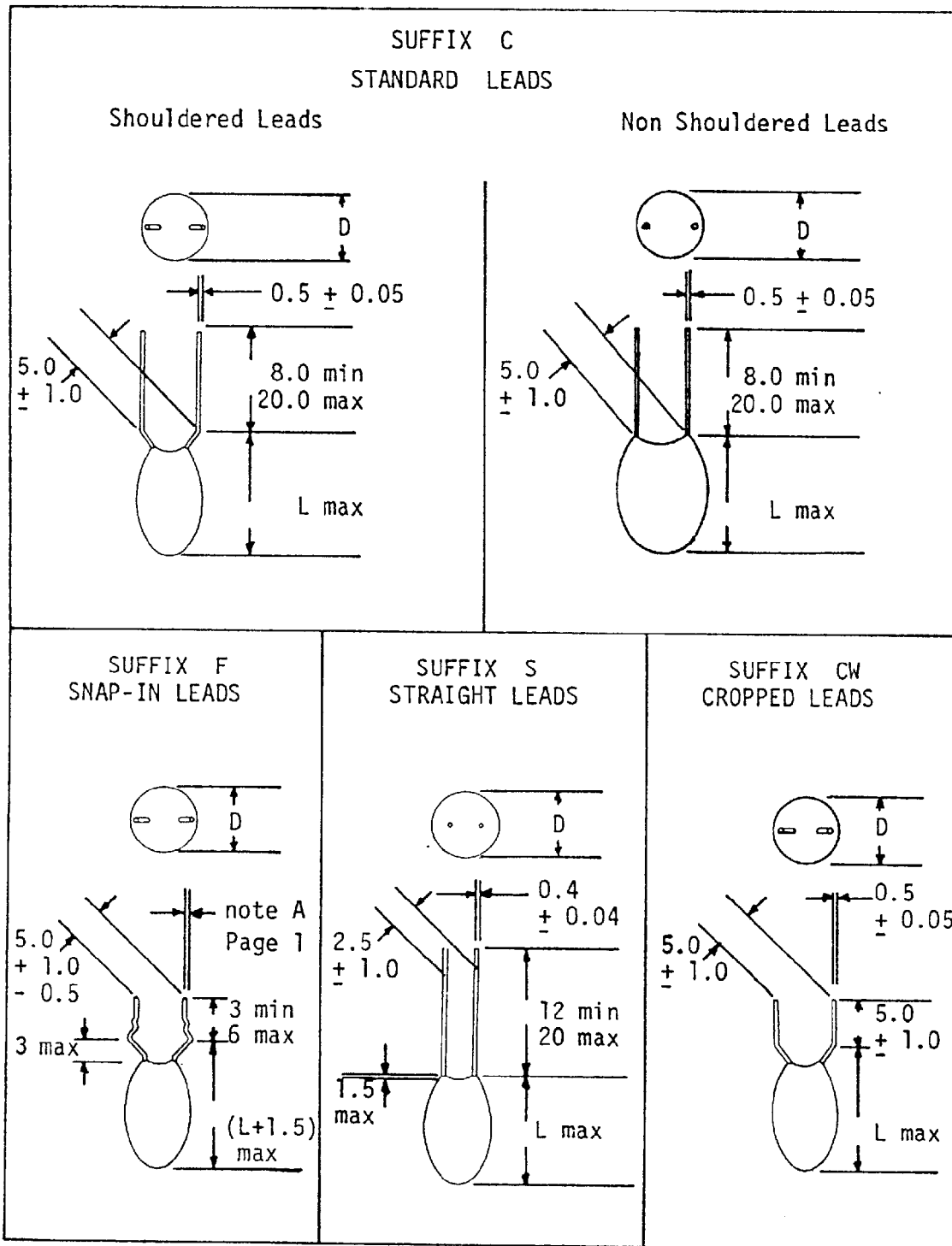
Notes: A See Manufacturer's catalogue/data sheet for :-

- Availability of the various termination forms.
- Wire diameter used for Suffix F terminations.

B The wire terminations of capacitors Suffices F and CW are designed to plug directly into printed circuit boards and are classed as rigid.

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

DETAILED DIMENSIONS



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)	- See TABLE 2A
Capacitance tolerance	- $\pm 20\%$
Rated voltage	- See TABLE 2A
Rated temperature	- 85°C
Leakage current	- See TABLE 2B
Tangent of Loss Angle	- See TABLE 2B
Climatic category	- -55 / 85 / 21
Surge voltage	- See TABLE 3A
Typical ripple ratings	- See TABLE 3B

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TABLE 2A CAPACITANCE AND VOLTAGE RELATED TO CASE SIZE

Capacitance μF	U_R	6.3	10	16	25	35	50
0.10						2	2
0.15						2	2
0.22						2	2
0.33						2	2
0.47						2	3
0.68						2	4
1.0						3	5
1.5					2	3	5
2.2				2	3	4	7
3.3			2	3	4	5	8
4.7		2	3	4	5	6	8
6.8		3	4	5	6	7	9
10		4	5	6	7	9	10
15		5	6	7	9	10	13
22		6	7	8	10	12	14
33		7	8	10	12	14	
47		8	9	11	13	14	
68		9	11	13	14		
100		11	13	15			
150		12	14	15			
220		14	15	16			
330		15	16				
470		16					
680		16					

TABLE 2B CHARACTERISTICS AT HIGH AND LOW TEMPERATURE

Test Temperature	Capacitance Change	Tangent of Loss Angle	Leakage Current
Room Temperature $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$	Reference Value	As TABLE 2B.1	As TABLE 2B.2
$-55^{\circ}\text{C} \pm 2^{\circ}\text{C}$	15% max	$< 330 : 0.13 \text{ max}$ $\geq 330 : 0.25 \text{ max}$	N/A
$85^{\circ}\text{C} \pm 2^{\circ}\text{C}$	20% max	$< 100 : 0.11 \text{ max}$ $\geq 100 : 0.12 \text{ max}$ $\geq 330 : 0.30 \text{ max}$	10 x Requirement of TABLE 2B.2