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Componenti Elettronici di Qualità Certificata

**Comitato
Elettrotecnico
Italiano** **CEI**
**SPECIFICA DI DETTAGLIO PER CONDENSATORI AL
TANTALIO CON Elettrolita Solido ad Anodo
POROSO**

Electronic Components of Assessed Quality. Detail Specification
for Tantalum Capacitors with Solid Electrolyte, Porous Anode.
Rated voltage range: 6.3/125 V - Climatic category: 55/125/56

CEI-CECC 30 201 - 012

3 Edizione, Luglio 1985

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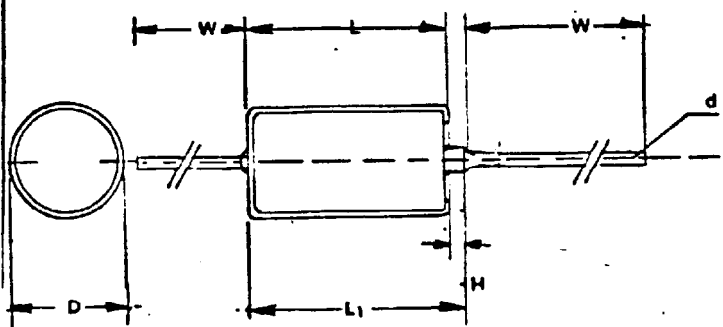
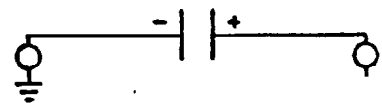
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Documents
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COMITATO ELETTROTECNICO ITALIANO Specification available from: (National Standards Organization)	CECC 30 201 - 012 
ELECTRONIC COMPONENTS OF ASSESSED QUALITY - DETAIL SPECIFICATION IN ACCORDANCE WITH : CEI-CECC 30 000 and 30 200	CEI-CECC 30 201 - 012 3rd Edition, July 1985
Outline and dimensions: (first angle projection)   CIRCUIT DIAGRAM	DETAIL SPECIFICATION FOR FIXED TANTALUM CAPACITORS WITH SOLID ELECTROLYTE, POROUS ANODE (SUB-FAMILY 3) Typical construction: Cylindrical - Polar - Metallic case - Insulated - Axial - Intended for printed circuits Assessment level full.

QUICK REFERENCE DATA: Rated cap. range: 0.1 + 330 μ F
Capacitance tol.: $\pm 5\%$ $\pm 10\%$ $\pm 20\%$

Rated voltage range: 6.3/125 V
Climatic category: 55/125/56

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

1. General data

1.1. Recommended method of mounting

Specified method of mounting for vibration and bump testing: The component shall be mounted by clamping the body and the terminations. For details see specifications CNR-CEI-CECC 30200.

Table 1

CASE SIZE REFERENCE	D $\pm$ 0.4	L $\pm$ 1.0	L ₁ max	H max	W $\pm$ 5	d
E	3.40	4.80	8.50	3.2	30	0.5
A	3.40	6.30	10.50	3.2	30	0.5
B	4.70	11.00	15.00	3.2	30	0.5
R	7.30	16.50	20.50	3.2	30	0.6
S	8.90	19.00	23.50	3.2	30	0.6

N.B. Dimensions including the sleeve.

Note 1: When there is no case size reference, Table 1 may be omitted and the dimensions shall be given in Table 2, which then becomes Table 1.

Note 2: The dimensions shall be given as maximum dimensions or as nominal dimensions with a tolerance.

1.3 Ratings and characteristics

Capacitance range	(See Table 2A)
Tolerance on rated capacitance	
Rated voltage	(See Table 2A)
Category voltage (if applicable)	(See Table 2A)
Climatic category	
Rated temperature	
Capacitance change with temperature	(See Table 2B)
Tangent of loss angle	(See Table 2B)
Leakage current	(See Table 2B)
Impedance	(See Table 2C)
Reverse voltage	3V or 15% category voltage whichever is the less

Table 2A. Value of capacitance and voltage related to case size

Rated Capac. (μ F)	Cap. Tol.		RATED VOLTAGE ($U_r = U_c$)										
			U_r 6.3	10	16	20	25	40	50	63	80	100	125
	10%	20%	U_c 4	6.3	10	13	16	25	32	40	50	63	80
0.10	+	+						E	E	A	A	A	A
0.12	+							E	E	A	A	A	A
0.15	+	+						E	E	A	A	A	A
0.18	+							E	E	A	A	A	A
0.22	+	+						E	E	A	A	A	A
0.27	+							E	A	A	A	A	A
0.33	+	+						E	A	A	A	A	A
0.39	+							E	A	A	A	A	B
0.47	+	+				A	A	A	A	A	A	A	B
0.56	+					A	A	A	A	A	A	A	B
0.68	+	+				A	A	A	A	A	A	B	B
0.82	+					A	A	A	A	B	B	B	B
1.00	+	+				A	A	A	A	B	B	B	B
1.20	+					A	A	A	A	B	B	B	B
1.50	+	+			A	A	A	B	B	B	B	B	B
1.80	+			A	A	A		B	B	B	B	B	B
2.20	+	+		A	A	A		B	B	B	B	B	B
2.70	+		A	A	A			B	B	B	B	B	R
3.30	+	+	A	A	A			B	B	B	B	R	R
3.90	+		A	A				B	B	B	B	R	R
4.70	+	+	A	A				B	B	R	R	R	R
5.60	+		A				B	B	R	R	R	R	R
6.80	+	+	A				B	B	R	R	R	R	R
8.20	+				B	B	B	R	R	R	R	S	S
10	+	+			B	B	B	R	R	R	R	S	S
12	+			B	B	B		R	R	S	S		
15	+	+		B	B	B		R	R	S	S		
18	+		B	B	B			R	R	S			
22	+	+	B	B	B		R	R	S				

Tol: $\pm 5\%$ on request

Table 2A: Values of capacitance and voltage related to case size (cont'd)

Rated Capac. (μ F)	Cap. Tol.		RATED VOLTAGE ($U_r = U_c$)										
			U_r 6.3	10	16	20	25	40	50	63	80	100	125
	10%	20%	U_c 4	6.3	10	13	16	25	32	40	50	63	80
27	+		B	B	R	R	R	S					
33	+	+	B	B	R	R	S	S					
39	+		B	R	R	R	S	S					
47	+	+	B	R	R	R	S	S					
56	+		B	R	R	S	S						
68	+	+	R	R	R	S	S						
82	+		R	R	S	S							
100	+	+	R	R	S	S							
120	+		R	R	S								
150	+	+	R	S	S								
180	+		S	S									
220	+	+	S	S									
270	+		S										
330	+	+	S										

Tol. $\pm 5\%$ on request