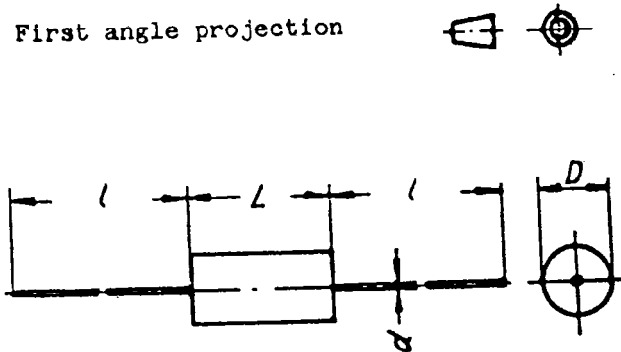
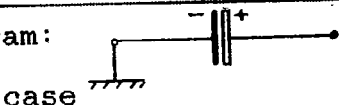


ÖVE-CECC 30 301-056

Österreichischer Verband für Elektrotechnik (ÖVE) 1. Eschenbachgasse 9 A-1010 VIENNA	ÖVE-CECC 30 301-056 
Ref.No. 2222 132/133 Specification also available from: Österr. Philips Industrie GmbH Bauelementewerk Ebentaler Straße 140 A-9020 Klagenfurt	ÖVE-CECC 30 301-056 1st Edition, 1988 page 1 of 16
Electronic components of assessed quality in accordance with: ÖVE-CECC 30 000 ÖVE-CECC 30 300	ALUMINIUM ELECTROLYTIC CAPACITORS WITH NON- SOLID ELECTROLYTE
Outline drawing: see Table I First angle projection  (other shapes are permitted within the dimensions given)	Typical construction: - Polar - Cylindrical - Metallic case - Insulated - Axial wire terminations Quick reference data: Rated Capacitance (Cr) range 4,7 to 470µF Cap. tolerance +50/-10% Rated voltage (Ur) range 10 to 385V Climatic cat. 40/085/56
Circuit diagram:  case	Assessment level: E Application grade: long life 5000h
Information on the availability of components qualified to this detail specification is given in the Qualified Products List (QPL) (CECC 00 200)	

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0VE-CECC 30 301-056

SECTION ONE - GENERAL DATA

1. GENERAL DATA

1.1 DIMENSIONS

Table 1

case size reference	Dimensions in mm			
	Dmax 2)	Lmax 2)	d	lmin 1)
4	6,9	19	0,8 +0,08 -0,05	31
5	8,5	19		31
6	10,5	19		31
7	10,5	26		27

- 1) For taped versions, the requirements of publication IEC 286-1 are to be applied
- 2) Including insulation sleeve

1.2 RECOMMENDED METHOD OF MOUNTING (for vibration and shock testing)

The capacitors are to be clamped by their wire leads at a distance of 6 mm $\pm$ 1 mm to their case.

1.3 RATINGS AND CHARACTERISTICS

Application grade	long life, 5000h
Capacitance range	see Table II A
Tolerance on rated capacitance	+50/-10%
Rated voltage range	see Table II A
Category voltage	= Rated voltage
Category temperature range	-40 to +85°C

OVE-CECC 30 301-056

Rated temperature	+85°C
Climatic category	40/085/56
Rated ripple current	see Table II B
Tangent of loss angle	see Table II B
Leakage current (after 5 min)	see Table II B
Impedance	see Table II B
Maximum allowable reverse voltage	2V

Table II A

Values of capacitance and of voltage related to case sizes

Rated voltage(V)	10	16	25	40	63	100	200	385
Rated (μF) capacit.	case size reference							
4,7					4	4	6	7
6,8					4	5		
10					4	5	7	
15				4	5	6		
22			4		5	6		
33			4	5	6	7		
47		4		5	6	7		
68		4	5	6	7			
100		5		6				
150		5	6	7				
220		6	7					
330		7						
470	7							

OVE-CECC 30 301-056

Table II B:

Tangent of loss angle, impedance, rated ripple current and leakage current

CR (μ F)	Ur (V)	max. Tangent of loss angle at 20°C and 100 Hz	max. Impedance (Ω) at 20°C and 100 kHz	max. r.m.s. ripple curr. (mA) * at 85°C and 100 Hz	max. leakage curr. (μ A) after 5min Ur at 20°C
470	10	0,18	0,34	380	32
47	16	0,15	2,6	92	7,5
68		0,15	1,8	105	11
100		0,15	1,2	130	14
150		0,15	0,8	180	18
220		0,15	0,55	240	25
330		0,15	0,36	300	36
22	25	0,13	4,1	60	5,5
33		0,13	2,7	80	8,3
68		0,13	1,3	130	14
150		0,13	0,6	220	27
220		0,13	0,41	310	37
15	40	0,10	5,0	55	6
33		0,10	2,3	95	12
47		0,10	1,6	110	15
68		0,10	1,1	160	20
100		0,10	0,75	200	28
150		0,10	0,5	300	40

*) not for inspection purposes



OVE-CECC 30 301-056

Table II B:

Tangent of loss angle, impedance, rated ripple current and leakage current

CR (μ F)	UR (V)	max. Tangent of loss angle at 20°C and 100 Hz	max. Impedance (Ω) at 20°C and 100 kHz	max. r.m.s. ripple curr. (mA) * at 85°C and 100 Hz	max. leakage curr. (μ A) after 5min Ur at 20°C
4,7	63	0,07	12	38	3
6,8		0,07	8,1	43	4,3
10		0,07	5,5	62	6,3
15		0,07	3,7	76	9,5
22		0,07	2,5	92	12
33		0,07	1,7	130	16
47		0,07	1,2	160	22
68		0,07	0,81	200	30
4,7	100	0,06	9,6	46	4,7
6,8		0,06	6,6	56	6,8
10		0,06	4,5	67	10
15		0,06	3,0	90	13
22		0,06	2,0	120	17
33		0,06	1,4	160	24
47		0,06	0,96	210	32
4,7	200	0,10	19	40	9,4
10		0,10	9	63	16
4,7	385	0,10	17	43	15

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