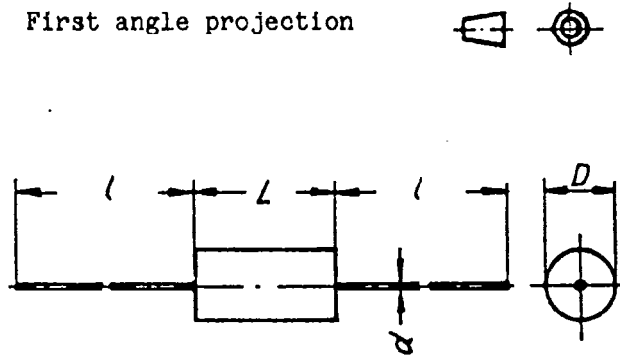
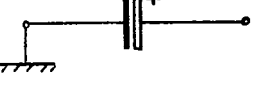


ÖVE-CECC 30 301- 055

Osterreichischer Verband für Elektrotechnik (ÖVE) 1.Eschenbachgasse 9 A-1010 VIENNA	ÖVE-CECC 30 301- 055 
Ref.No. 2222 119 Specification also available from: Österr.Philips Industrie GmbH Bauelementewerk Ebentaler Straße 140 A-9020 Klagenfurt	ÖVE-CECC 30 301- 055 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 200V Climatic cat. 55/125/56
Circuit diagram:  case	Assessment level: E Application grade: long life 2000h
Information on the availability of components qualified to this detail specification is given in the Qualified Products List (QPL) (CECC 00 200)	

SECTION ONE - GENERAL DATA

1. GENERAL DATA

1.1 DIMENSIONS

Table 1

case size reference	Dimensions in mm			
	D _{max} ²⁾	L _{max} ²⁾	d	l _{min} 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 ± 1 mm to their case.

1.3 RATINGS AND CHARACTERISTICS

Application grade	long life, 2000h
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	-55 to +125°C

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Rated temperature	+125°C
Climatic category	55/125/56
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
Rated (μF) capacitance	case size reference						
4.7					4	4	6
6.8					4	5	
10					4	5	7
15				4	5	6	
22			4		5	6	
33				5	6		
47		4		5	6	7	
68				6	7		
100	4	5	6	7			
150		6	7				
220	6	7	7				
330	7						
470	7						

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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
100	10	0,23	2,2	110	10
220		0,23	1,0	200	17
330		0,23	0,69	270	24
470		0,23	0,49	350	32
47	16	0,19	3,8	83	7,5
100		0,19	1,8	140	14
150		0,19	1,2	180	18
220		0,19	0,84	260	25
22	25	0,15	6,4	65	5,5
100		0,15	1,4	180	19
150		0,15	0,95	250	26
220		0,15	0,66	300	37
15	40	0,12	7,3	50	6
33		0,12	3,3	100	12
47		0,12	2,3	120	15
68		0,12	1,6	170	20
100		0,12	1,1	230	28

*) not for inspection purposes

Table II B (continued):

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	0,11	19	40	3
6,8		0,11	13	45	4,3
10		0,11	9	62	6,3
15		0,11	6	71	9,5
22		0,11	4,1	90	12
33		0,11	2,7	120	16
47		0,11	1,9	160	22
68		0,11	1,3	210	30
4,7	100	0,13	16	40	4,7
6,8		0,13	11	50	6,8
10		0,13	7,5	60	10
15		0,13	5	80	13
22		0,13	3,4	110	17
47		0,13	1,6	190	32
4,7	200	0,13	11	45	9,4
10		0,13	5	75	16

*) not for inspection purposes

