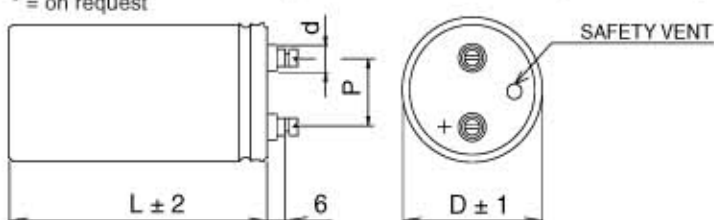


Professional electrolytic capacitors
High reliability - High ripple
Long life -40 +85°C
Specially for POWER SUPPLY

D mm.	P mm.	L mm.			d mm.
35	12.7	54	82	102	8
50	22.2	82	102		13 8*
64	28.6	102	143*		13 8*
76	31.8	102	143	216	13 8*
90	31.8	220			17 13*

* = on request



Capac. type 1.82 - Capac. type 1.84 - Nylon nut - Stainless steel clamp with 2 fixing points for capacitors D = 35 mm.
Stainless steel clamp with 3 fixing points for capacitors D > 35 mm.

Applications

Long Life computer grade capacitors for high ripple current, high CV applications, BIG SIZE up to 90 x 220 mm, specially designed for POWER SUPPLY and professional uses.

Manufacturing

Cylindrical aluminium case with PVC insulating sleeve - sealing cover in self - extinguishing resin with screw terminals, M5 for capacitors D ≤ 76 mm. - M6 for capacitors D = 90 mm. - Fixing stud: M8 x 12 mm. for capacitors D = 35 mm., M12 x 16 mm. for capacitors D ≥ 50 mm.

Technical characteristics

Reference standard IEC 384-4 - DIN 41240 - CECC 30300
Climatic category -40/ +85/ 56 (-40/ +85°C) according to IEC 68 - 1 for VR ≤ 450 V
Capacitance category -10+30%
Surge voltage 1.15 VR (VR = Rated voltage)
Superimposed alternating voltage 1.5 V.
Leakage current (I_l) in µA after 5' at VR. DC. (C in µF) ≤ 0.3 µA · (Cr/µF · VR/V)^{0.7} + 4µA
Ripple current (I_r) at 85°C and 100 Hz as shown in table A

Ripple current (I _r) between +25 and +85 °C, 100Hz	θ	25 + 40°C	50°C	60°C	70°C	80°C	85°C
Multiply the listed values at 85 °C by the factors shown at side	factor X	2.4	2.1	1.75	1.4	1.15	1.0

Ripple current (I _r) Vs the frequency f.	VR.DC.	50 Hz	100 Hz	400 Hz	800 Hz	≥ 1000 Hz
Multiply the listed values at 85 °C by the factors shown at side	≤ 100V	0.9	1	1.15	1.18	1.20
	> 100V	0.95	1	1.15	1.25	1.30

Max r.m.s. current on the screw terminals 25 A for D ≤ 50 mm. 40 A for D > 50 mm.
Vibrations resistance - duration 3 x 2h (CEI - 68) frequency 10 + 55 HZ - amplitude 0.75 mm. max. acceleration 10 g

Insulating sleeve test between terminals and mounted Al. hardware at 25°C 2000 V 50 HZ for 1 minute; insulation resistance 100 MΩ

Service life

Life test - Standard endurance test at 85 °C and VR. according to IEC 384-4 LONG LIFE: 2.000 h

Expected life at VR and permissible value of I _r	θ	VR ≤ 100V	VR > 100V
	40 °C	> 400.000 h	~ 200.000 h
	85 °C	~ 10.000 h	~ 5.000 h
	105 °C	~ 3.000 h	

Failure rate (N. or failures per component and time unit) ≤ 30 fit (≤ 30.10⁻⁹/h)

Other characteristic: see table A, enclosure 1/7 A and 2/7 A

Please, inquire for information about other characteristics or particular applications.

FACON S.p.A. MANUFACTURING OF ELECTRICAL CAPACITORS

Via Molini Trotti, 13 - 21100 Varese - Italy Tel. 39/(0)332/282300 - Telex 380378 Provex I for FACON - Telefax 39/(0)332/282705
http://www.Facon.com

TABLE A

C. µ F.	D X L	ESR typ 100 HZ m Ω	ESR max 100 HZ m Ω	Z max 10 KHZ m Ω	I _r max 100 HZ 85°C-A	part a CODE** part b
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C. µ F.	D X L	ESR typ 100 HZ m Ω	ESR max 100 HZ m Ω	Z max 10 KHZ m Ω	I _r max 100 HZ 85°C-A	part a CODE** part b
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Rated voltage VR.DC. 16 V 18*09						
15000	35 54	27	36	22	6,9	15000
22000	35 82	18	24	15	9,8	22000
33000	50 82	17	23	16	12,4	33000
47000	50 82	12	16	12	14,8	47000
68000	50 102	12	16	11	16,5	68000
100000	64 102	9	12	9	21,6	90100
150000	64 102	7	10	8	24,1	90150
220000	64 102	6	8	6	27,3	90220
330000	76 142	4	5	4	42,2	90330
470000	76 143	3	4	3	46,2	90470

Rated voltage VR.DC. 200 V 18*44						
330	35 54	338	456	233	1,9	00330
470	35 82	254	343	175	2,6	00470
680	35 82	176	237	121	3,2	00680
1000	50 102	127	172	103	5,0	01000
1500	50 102	85	115	68	6,1	01500
2200	64 102	72	98	65	7,7	02200
3300	64 102	48	65	43	9,4	03300
4700	76 102	34	46	32	12,6	04700
6800	76 143	28	38	27	15,6	06800
10000	76 143	19	26	18	19,0	10000

Rated voltage VR.DC. 25 V 18*12						
6800	35 54	44	60	36	5,3	06800
10000	35 54	30	41	26	6,4	10000
15000	35 82	20	27	16	9,3	15000
22000	50 82	23	31	22	10,8	22000
33000	50 82	15	21	15	13,2	33000
47000	50 102	11	15	10	17,2	47000
68000	64 102	9	13	9	21,4	68000
100000	64 102	10	13	10	21,2	90100
150000	76 143	7	9	7	31,6	90150
220000	76 143	5	6	5	38,2	90220

Rated voltage VR.DC. 250 V 18*47						
330	35 54	304	410	211	2,0	00330
470	35 82	213	288	148	2,9	00470
680	50 82	147	199	120	4,3	00680
1000	50 82	100	135	68	5,2	01000
1500	50 102	67	90	54	6,9	01500
2200	64 102	56	75	50	8,8	02200
3300	76 102	37	50	35	12,0	03300
4700	76 143	26	35	25	16,2	04700
6800	76 143	18	24	17	19,5	06800
10000	76 143	16	21	15	20,8	10000
12000	76 143	16	21	15	20,8	12000

Rated voltage VR.DC. 40 V 18*18						
4700	35 54	41	55	33	5,6	04700
6800	35 82	28	38	23	7,9	06800
10000	35 102	22	30	18	9,7	10000
15000	50 82	20	27	19	11,5	15000
22000	50 82	15	21	14	13,3	22000
33000	50 102	12	16	11	16,3	33000
47000	50 102	11	15	10	17,2	47000
68000	64 102	11	14	11	20,2	68000
100000	76 102	7	10	8	27,3	90100
150000	76 143	6	9	7	32,8	90150

Rated voltage VR.DC. 350 V 18*57						
470	50 82	196	265	160	3,7	00470
680	50 102	136	183	111	4,8	00680
1000	64 102	92	125	84	6,8	01000
1500	76 102	62	83	59	9,3	01500
2200	76 102	42	57	40	11,3	02200
3300	76 143	28	38	27	15,7	03300
4700	76 143	27	37	26	15,9	02200
6800	76 143	18	25	18	19,2	06800
10000	76 216	13	17	12	27,6	10000
15000	76 216	8	15	10	34,0	15000
15000	90 220	8	15	11	35,1	15001

Rated voltage VR.DC. 63 V 18*25						
2200	35 54	58	78	57	4,7	02200
3300	35 54	39	52	38	5,7	03300
4700	35 82	30	41	30	7,6	04700
10000	50 102	18	24	20	13,5	10000
15000	50 102	15	20	17	14,7	15000
22000	50 102	11	15	12	17,1	22000
33000	64 102	9	12	11	22,3	33000
47000	76 102	8	11	11	25,1	47000
68000	76 143	6	8	8	34,3	68000
100000	76 143	6	8	7	35,1	90100

Rated voltage VR.DC. 400 V 18*65						
330	35 102	241	326	170	3,0	00330
470	50 102	168	228	139	4,3	00470
680	50 102	117	158	96	5,2	00680
1000	64 102	80	107	73	7,4	01000
1500	64 102	64	86	58	8,2	01500
2200	76 102	45	61	43	10,9	02200
3300	76 143	32	44	31	14,6	03300
4700	76 143	24	32	23	17,9	04700
6800	76 143	19	25	18	20,1	06800
10000	76 216	14	19	14	27,3	10000

Rated voltage VR.DC. 100 V 18*33						
1500	35 54	69	202	146	4,3	01500
2200	35 54	47	63	47	6,1	02200
3300	35 82	31	42	31	7,5	03300
4700	50 82	22	30	25	12,0	04700
6800	50 102	19	25	21	13,0	06800
10000	64 102	14	18	14	17,8	10000
15000	76 102	13	17	14	20,5	15000
22000	76 102	13	18	14	20,3	22000
33000	76 102	10	13	10	23,5	33000
47000	76 143	7	9	7	31,8	47000

Rated voltage VR.DC. 450 V 18*70						
150	35 54	658	888	457	1,4	00150
220	35 82	449	606	311	2,0	00220
330	35 82	299	404	208	2,4	00330
470	50 82	210	283	171	3,6	00470
680	50 82	145	196	118	4,3	00680
1000	50 102	99	133	80	6,5	01000
1500	64 102	66	89	60	9,0	01500
2200	76 102	45	61	43	10,9	02200
2200	76 143	45	61	43	12,4	02200
3300	76 143	37	50	35	15,8	03300
3300	76 120	37	50	35	12,7	03303
4700	76 143	26	35	25	18,4	04700
5600	76 143	22	30	21	20,6	05600
5600	76 216	22	30	21	22,6	06601

Rated voltage VR.DC. 160 V 18*42						
470	35 54	203	274	141	2,5	00470
680	35 82	138	186	96	3,6	00680
1000	35 82	94	127	65	4,3	01000
1500	50 82	63	85	51	6,6	01500
2200	50 102	54	73	44	7,7	02200
3300	64 102	37	50	33	10,8	03300
4700	64 102	26	35	23	12,9	04700
6800	76 102	19	25	18	16,9	06800
10000	76 143	14	18	13	22,5	10000
15000	76 143	11	14	10	25,4	15000

** Article code is composed by 10 numbers: first 5 numbers (a) are the same for every group of VR. DC., the second 5 (b) are listed in table. In (a) * = 2 for capacitors in normal execution, * = 4 for capacitors in execution with fixing stud.
ex: 15.000 µF / 16 VR. DC.
normal execution: code = a + b = 18209.15000
Note: size 64x143 is available on request instead of size 76x102.