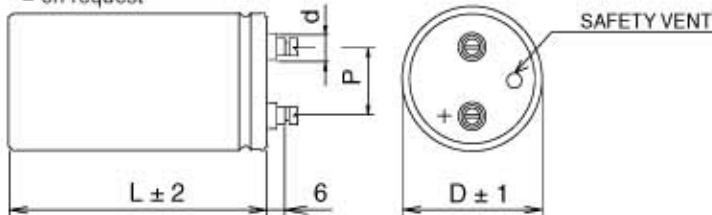


Professional electrolytic capacitors
High reliability - High ripple - Long life
High temperature -55 +105°C

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		13 8*

* = on request



① Capac. type 1.86 - ② Capac. type 1.88 - ③ Nylon nut - ④ Stainless steel clamp with 2 fixing points for capacitors D = 35 mm. - ⑤ Stainless steel clamp with 3 fixing points for capacitors D > 35 mm.

Applications

In several professional and military applications, for computers, control equipments, power converters, current inverters, telecommunications, timers, photoflash applications, soldering machines, power supply units for electronic equipments, series/parallel connection for high V. filtering,

Manufacturing

Cylindrical aluminium case with PVC insulating sleeve-sealing cover in self-extinguishing resin with screw terminals M5 for capacitors D ≤ 76 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 - CECC 30300						
Climatic category	-55 / +105 / 56						
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.	≤ 0.006 µA . (Cr/µF . VR/V) + 4µA for 1000 µC ≤ CR.VR < 470.000 µC ≤ 0.3 µA . (Cr/µF . VR/V) ^{0.7} + 4µA for CR . VR ≥ 470.000 µC as shown in table A						
Ripple current (I _r) at 100 Hz and 85°C/105°C							
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	according to IEC 384-4 LONG LIFE (2.000 h)		
Standard endurance test	θ	up to 400V	
	105 °C	2.000 h	
	85 °C	5.000 h	
Expected life at permissible value of I _r	θ	VR ≤ 100V	VR > 100V
	40°C	> 300.000 h	~ 200.000 h
	85°C	~ 30.000 h	> 10.000 h
	105°C	~ 8.000 h	> 5.000 h
Failure rate	≤ 20 fit (≤ 20 .10 ⁻⁶ /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. µF.	D X L.	ESR typ 100 Hz mΩ	ESR max 100 Hz mΩ	Z max 1 KHz mΩ	Z max 10 KHz mΩ	I _r max 100 Hz 85°C-A	I _r max 100 Hz 105°C-A	part a CODE**	part b
Rated voltage VR,DC. 16 V 18°09									
10000	35 54	22	30	28	21	9,9	5,8	10000	
15000	35 54	18	24	21	17	11,0	6,5	15000	
22000	35 54	21	28	22	20	11,6	6,8	22000	
33000	50 82	19	26	20	18	15,6	9,2	33000	
47000	50 82	14	18	14	13	18,6	11,0	47000	
68000	50 102	11	14	11	10	23,0	13,5	68000	
100000	64 102	9	12	9	8	29,3	17,3	90100	
150000	64 102	7	9	7	7	33,1	19,4	90150	
220000	76 102	5	7	5	5	43,0	25,3	90220	
330000	76 143	4	6	4	4	52,8	31,0	90330	
Rated voltage VR,DC. 25 V 18°12									
6800	35 54	28	38	37	27	8,8	5,2	06800	
10000	35 54	21	28	26	20	10,3	6,1	10000	
15000	35 82	18	24	21	17	13,0	7,7	15000	
22000	50 82	19	25	20	18	15,8	9,3	22000	
33000	50 82	14	18	14	13	18,7	11,0	33000	
47000	50 102	11	15	11	10	22,7	13,3	47000	
68000	64 102	11	14	11	10	26,7	15,7	68000	
100000	64 102	9	12	9	9	28,6	16,8	90100	
150000	76 102	8	11	9	8	33,2	19,5	90150	
220000	76 143	7	9	7	6	41,9	24,7	90220	
Rated voltage VR,DC. 40 V 18°18									
2200	35 54	80	107	108	76	5,3	3,1	02200	
3300	35 54	53	72	72	50	6,4	3,8	03300	
4700	35 54	37	50	51	35	7,7	4,5	04700	
6800	35 54	28	38	37	27	8,8	5,2	06800	
10000	35 54	21	28	26	20	10,3	6,1	10000	
15000	50 82	21	29	24	20	14,9	8,8	15000	
22000	50 82	14	20	16	14	18,0	10,6	22000	
33000	64 102	12	16	13	11	25,5	15,0	33000	
47000	64 102	10	14	11	10	27,2	16,0	47000	
68000	76 102	10	14	10	10	30,5	17,9	68000	
100000	76 143	8	11	9	8	38,2	22,5	90100	
Rated voltage VR,DC. 63 V 18°25									
2200	35 54	58	76	93	55	6,2	3,6	02200	
3300	35 54	39	52	62	37	7,5	4,4	03300	
4700	35 82	30	41	46	29	10,0	5,9	04700	
6800	35 102	26	35	35	24	11,9	7,0	06800	
10000	50 102	21	28	26	20	16,4	9,7	10000	
15000	50 102	15	20	18	14	19,4	11,4	15000	
22000	64 102	12	17	14	12	24,8	14,6	22000	
33000	76 102	12	16	13	11	28,4	16,7	33000	
47000	76 143	11	15	12	11	33,9	20,0	47000	
68000	76 143	9	12	9	8	36,9	21,7	68000	
Rated voltage VR,DC. 100 V 18°33									
1000	35 54	103	140	191	99	4,6	2,7	01000	
1500	35 54	69	93	127	66	5,6	3,3	01500	
2200	35 82	47	63	87	45	8,1	4,7	02200	
3300	50 82	39	52	62	37	11,0	6,5	03300	
4700	50 102	29	39	45	27	13,9	8,2	04700	
6800	50 102	20	27	31	19	16,7	9,9	06800	
10000	64 102	18	25	24	17	20,3	11,9	90100	
15000	76 102	15	20	18	14	25,1	14,8	15000	
22000	76 143	12	17	14	12	31,4	18,4	22000	
33000	76 143	9	12	10	9	36,3	21,4	33000	

C. µF.	D X L.	ESR typ 100 Hz mΩ	ESR max 100 Hz mΩ	Z max 1 KHz mΩ	Z max 10 KHz mΩ	I _r max 100 Hz 85°C-A	I _r max 100 Hz 105°C-A	part a CODE**	part b
Rated voltage VR,DC. 160 V 18°42									
470	35 54	237	320	415	227	3,0	1,8	00470	
680	35 82	164	221	287	157	4,3	2,5	00680	
1000	35 82	119	161	200	114	5,1	3,0	01000	
1500	50 82	80	107	133	76	7,7	4,5	01500	
2200	50 102	58	78	93	55	9,8	5,8	02200	
3300	64 102	39	52	62	37	14,0	8,2	03300	
4700	76 102	29	39	45	27	18,0	10,6	04700	
6800	76 143	25	33	34	23	22,2	13,0	06800	
10000	76 143	18	25	24	17	25,7	15,1	10000	
12000	76 143	15	21	20	14	28,2	16,6	12000	
Rated voltage VR,DC. 200 V 18°44									
330	35 54	362	488	606	345	2,5	1,5	00330	
470	35 82	254	343	425	242	3,5	2,0	00470	
680	50 82	176	237	294	168	5,2	3,0	00680	
1000	50 102	119	161	200	114	6,8	4,0	01000	
1500	50 102	90	122	140	86	7,9	4,6	01500	
2200	64 102	67	77	114	62	9,3	5,5	02200	
3300	76 102	58	78	76	55	12,7	7,5	03300	
4700	76 102	41	55	53	39	15,2	8,9	04700	
6800	76 143	28	38	37	27	20,7	12,2	06800	
10000	76 143	19	26	25	18	25,2	14,8	10000	
Rated voltage VR,DC. 250 V 18°47									
220	35 54	651	879	979	620	1,8	1,1	00220	
330	35 82	434	586	653	413	2,7	1,6	00330	
470	35 82	305	411	458	290	3,2	1,9	00470	
680	50 82	234	316	333	222	4,5	2,6	00680	
1000	50 102	159	215	227	151	5,9	3,5	01000	
1500	64 102	106	143	151	101	8,4	5,0	01500	
2200	64 102	72	98	103	69	10,2	6,0	02200	
3300	76 102	58	78	76	55	12,7	7,5	03300	
4700	76 143	41	55	53	39	17,2	10,1	04700	
6800	76 143	28	38	37	27	20,7	12,2	06800	
8200	76 143	23	31	31	22	22,8	13,4	08200	
Rated voltage VR,DC. 350 V 18°57									
150	35 54	796	1074	1333	759	1,7	1,0	00150	
220	35 82	579	781	931	552	2,3	1,4	00220	
330	50 82	386	521	621	368	3,5	2,1	00330	
470	50 82	271	366	436	258	4,2	2,5	00470	
680	50 102	187	253	301	178	5,5	3,2	00680	