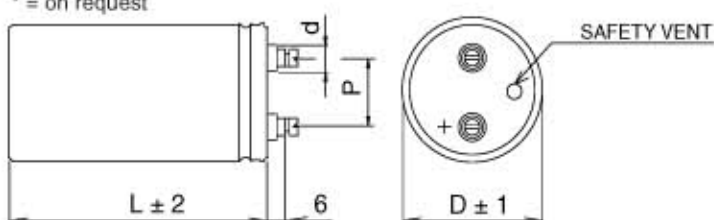


**Professional electrolytic capacitors**  
**High capacitance - Reduced volume**  
**Long life -40 +85°C - Specially for**  
**FOTO FLASH and FAST DISCHARGE**

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"

\* = on request



Capac. type 1.98 - Capac. type 1.96 - 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**

Computer grade capacitors for welding applications, all industrial uses; specially designed for FOTO FLASH uses and FAST DISCHARGE applications.

**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 41240 - CECC 30300
Climatic category	-40/ +85/ 56 (-40/ +85°C) according to IEC 68 - 1 for VR. ≤ 450 V -40/ +70/ 56 (-40/ +70°C) for VR. = 500 V
Capacitance category	± 20%
Surge voltage	1.1 VR (VR = Rated voltage)
Superimposed alternating voltage	1.5 V.
Leakage current (I <sub>f</sub> ) in µA after 5' at VR. DC. (C in µF)	≤ 0.3 µA . (Cr/µF . VR/V) <sup>0.7</sup> + 4µA
Ripple current (I <sub>r</sub> ) at 85°C and 100 Hz	as shown in table A

Ripple current (I <sub>r</sub> ) 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 <sub>r</sub> ) 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
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**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 <sub>r</sub>	θ	VR ≤ 100V	VR > 100V
	40 °C	> 300.000 h	~ 150.000 h
	85 °C	~ 5.000 h	~ 2.000 h

Failure rate (N. or failures per component and time unit) ≤ 100 fit (≤ 100.10<sup>9</sup>/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 Provox I for FACON - Telefax 39/(0)332/282705  
<http://www.Facon.com>

**TABLE A**

C, µF	D X L	ESR typ 100 HZ m Ω	ESR max 100 HZ m Ω	Z max 10 KHZ m Ω	I <sub>r</sub> max 100 HZ 85°C-A	part a CODE** part b
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C, µF	D X L	ESR typ 100 HZ m Ω	ESR max 100 HZ m Ω	Z max 10 KHZ m Ω	I <sub>r</sub> max 100 HZ 85°C-A	part a CODE** part b
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Rated voltage VR.DC. 200 V							19°44 a
560	35 54	227	307	156	2.4	00560	b
680	35 54	211	284	144	2.4	00680	
1000	35 54	143	193	98	3.0	01000	
1500	35 82	95	129	65	4.3	01500	
2200	35 102	80	107	54	5.1	02200	
3300	50 82	53	72	43	7.1	03300	
4700	50 102	37	50	30	9.3	04700	
6800	64 102	26	35	23	12.9	06800	
8200	64 102	25	34	23	13.1	08200	
10000	64 102	21	28	19	14.4	10000	
15000	76 143	16	21	15	20.8	15000	
22000	76 216	11	15	10	29.9	22000	

Rated voltage VR.DC. 400 V							19°65 a
220	35 54	506	684	349	1.6	00220	b
330	35 54	338	456	233	1.9	00330	
470	35 82	237	320	164	2.7	00470	
680	35 82	164	221	113	3.3	00680	
1000	50 82	111	150	90	4.9	01000	
1500	50 82	74	100	60	6.0	01500	
2200	64 102	51	68	46	9.2	02200	
3300	64 102	39	52	35	10.6	03300	
4700	76 102	27	37	26	14.0	04700	
5600	76 102	23	31	22	15.3	05600	
6800	76 143	21	28	20	18.1	06800	
8200	76 143	19	26	18	18.8	08200	
12000	76 216	13	18	13	27.0	12000	

Rated voltage VR.DC. 250 V							19°47 a
680	35 54	164	221	113	2.8	00680	b
1000	35 54	111	150	77	3.4	01000	
1500	35 82	74	100	51	4.9	01500	
2200	50 82	51	68	41	7.3	02200	
3300	50 102	39	52	31	9.1	03300	
4700	64 102	27	37	24	12.6	04700	
6800	64 102	19	25	17	15.2	06800	
10000	76 102	13	17	12	20.5	10000	
15000	76 143	12	16	11	24.3	15000	
18000	76 143	11	16	11	24.4	18000	
25000	76 216	8	11	8	34.9	18000	

Rated voltage VR.DC. 450 V							19°70 a
220	35 54	579	781	397	1.5	00220	b
330	35 54	386	521	265	1.8	00330	
470	35 82	271	361	186	2.5	00470	
470	50 82	271	366	218	3.1	00470	
680	50 82	187	253	151	3.8	00680	
1000	50 82	127	172	103	4.6	01000	
1500	50 102	85	115	68	6.1	01500	
2200	64 102	58	78	52	8.6	02200	
3300	64 143	39	52	35	12.0	03300	
4700	76 143	34	46	30	14.2	04700	
5600	76 143	28	38	27	15.5	05600	
6800	76 216	26	35	24	19.4	06800	
8200	76 216	21	29	20	21.3	08200	

Rated voltage VR.DC. 350 V							19°57 a
330	35 54	338	456	233	1.9	00330	b
470	35 54	237	320	164	2.3	00470	
680	35 82	164	221	113	3.3	00680	
1000	35 82	111	150	77	4.0	01000	
1500	50 82	74	100	60	6.0	01500	
2200	50 82	51	68	41	7.3	02200	
2450	50 82	45	61	37	7.7	02450	
3300	64 102	39	52	35	10.6	03300	
4700	64 102	27	37	24	12.6	04700	
5600	64 102	26	35	23	13.0	05600	
6000	76 102	24	32	23	15.0	06000	
6800	76 102	21	28	20	15.9	06800	
8200	76 143	17	24	17	19.8	08200	
10000	76 143	14	19	14	21.9	10000	
15000	76 216	10	13	9	31.9	15000	
18000	76 216	8	11	8	34.9	18000	

Rated voltage VR.DC. 500 V							19°73 a
220	35 82	543	732	373	1.8	00220	b
330	50 82	362	488	292	2.7	00330	
470	50 82	254	343	205	3.3	00470	
680	50 102	176	237	142	4.3	00680	
1000	64 102	119	161	108	6.0	01000	
1500	64 102	80	107	72	7.4	01500	
2200	76 102	54	73	52	9.9	02200	
3300	76 143	36	49	35	13.8	03300	
4700	76 216	25	34	24	19.5	04700	

\*\* 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) \* = 3 for capacitors in normal execution, \* = 5 for capacitors in execution with fixing stud.

ex: 2.200 µF / 450 VR. DC.

fixing stud execution: code = a + b = 19870.02200

Note: size 64x143 is available on request instead of size 76x102.