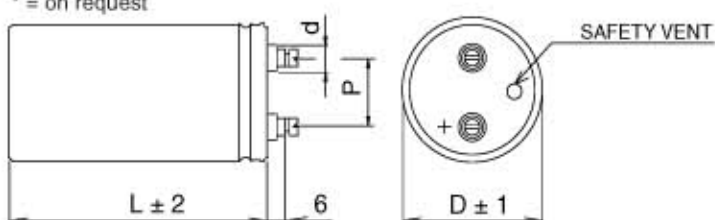


**Professional electrolytic capacitors**  
**High reliability- High ripple -Long life**  
**-55 +85°C - Specially for INVERTER/  
CONVERTER/TRACTION.**

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 1.90 - Capac. type 1.92 - 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, high CV applications, specially designed for INVERTER, frequency CONVERTER, TRACTION 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. Available on request D=35 and D=50mm with safety vent on the case for VERTICAL MOUNTING on PRINTED CIRCUIT BOARD.

**Technical characteristics**

Reference standard	IEC 384-4 - DIN 41240 - CECC 30300						
Climatic category	-55/ +85/ 56 (-55/ +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 <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

**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	> 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<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 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 <sub>r</sub> max 100 HZ 85°C-A	I <sub>r</sub> max 300 HZ 85°C-A	part a CODE** part b
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Rated voltage VR.DC. 350 V								19*57
150	35	54	615	831	429	1,4	1,6	00150
220	35	54	420	566	292	1,7	2,0	00220
330	35	82	280	378	195	2,5	2,8	00330
470	50	82	196	265	160	3,7	4,2	00470
470	35	102	196	265	137	3,3	3,7	00471
680	50	102	136	183	111	4,8	5,5	00680
1000	50	102	92	125	75	5,9	6,6	01000
1500	64	102	62	83	56	8,4	9,5	01500
2200	76	102	42	57	40	11,3	12,8	02200
3300	76	143	28	38	27	15,7	17,7	03300
4700	76	143	27	27	19	15,9	18,0	04700
5600	76	143	23	23	16	17,4	19,6	05600
6800	76	143	14	19	13	22,1	25,0	06800
8200	76	143	16	21	15	23,0	26,0	08200
10000	76	143	13	17	12	24,4	27,5	10000
12000	76	216	12	16	11	28,5	32,2	12000

Rated voltage VR.DC. 400 V								19*65
100	35	54	796	1074	560	1,3	1,4	00100
150	35	54	531	716	374	1,5	1,7	00150
220	35	82	362	488	255	2,2	2,5	00220
330	35	102	241	326	170	3,0	3,3	00330
470	50	82	169	229	139	4,0	4,5	00470
680	50	102	117	158	96	5,2	5,9	00680
1000	64	102	80	107	73	7,4	8,3	01000
1500	76	102	66	89	63	9,0	10,2	01500
2200	76	102	47	63	45	10,7	12,0	02200
3300	76	143	31	42	30	14,8	16,7	03300
4700	76	143	22	30	21	19,0	21,5	04700
6800	76	143	16	22	16	20,5	23,1	06800
10000	76	216	14	19	14	26,0	29,4	10000

Rated voltage VR.DC. 450 V								19*70
100	35	54	796	1074	560	1,3	1,4	00100
150	35	82	531	716	374	1,8	2,1	00150
220	35	82	362	488	255	2,2	2,5	00220
330	50	82	241	326	198	3,3	3,8	00330
470	35	82	169	229	119	3,2	3,6	00470
680	50	82	117	158	96	4,8	5,4	00680
1000	50	102	99	133	80	6,5	7,3	01000
1500	50	102	74	100	60	6,9	7,8	01500
1500	64	102	53	72	48	9,0	10,2	01501
2200	76	143	36	49	35	13,8	15,6	02200
3300	76	143	29	48	34	15,4	17,4	03300
3300	76	143	24	28	20	16,9	19,1	03301
4700	76	216	27	37	26	19,8	22,4	04700
5600	76	216	23	31	22	22,6	25,6	05600

\*\* 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) \* = 0 for capacitors in normal execution, \* = 2 for capacitors in execution with fixing stud.  
ex: 1.500 µF / 350 VR. DC.  
normal execution: code = a + b = 19057.01500