

AC Filter capacitor for PCB

■ **Structure**

- Dielectric: Metallized Polypropylene Film
- Electrode: Special process metal vacuum evaporation layer.
- Encapsulation: Flame retardant epoxy resin sealing, conforming to UL94 V-0
- Shell: Flame retardant PBT plastic shell, conforming to UL94 V-0
- Lead-wire: Tinned copper wire

■ **Typical Application**

- Suitable for low power AC filter circuits (E.g.: UPS, LCL filte in Solar Photovotaic DC/AC Invenrter).

■ **Characteristics**

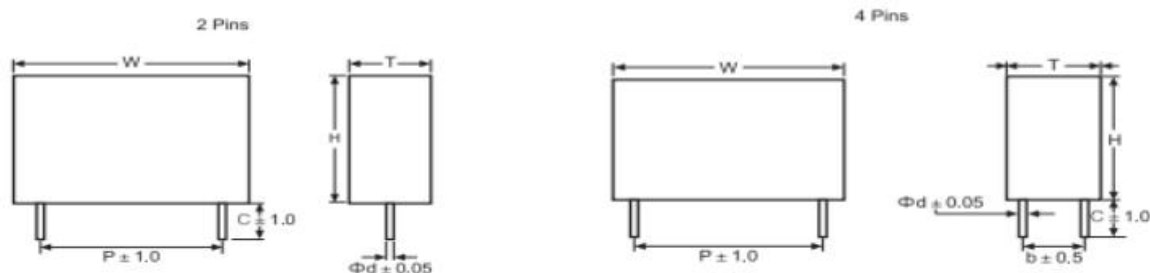
- Good appearance consistency, good self-healing property, strong humidity resistance, Long lifetime, excellent overvoltage resistance.

■ Conform to RoHS standards

■ **Technical Parameter**

Reference Standards	GB/T17702 (IEC 61071)			
Climatic Category	40/85/56			
Operating Temperature Range (Shell)	40℃~105℃ (+85℃~+105℃: Decreasing Factor1.5%/℃ for Urms)			
Rated RMS Voltage(Urms)	180Vac	250Vac	300Vac	350Vac
Rated AC.Voltage(Un)	250Vac	350Vac	425Vac	480Vac
	300Vdc	475Vdc	560Vdc	600Vdc
Capacitance Range	4.0μF~60.0μF	1.0μF~40.0μF	1.0~28.0μF	0.33μF~27.0μF
Capacitance Tolerance	J (±5%) 、 K (±10%)			
Voltage Proof	Between Terminals: 1.5UN(Vac) (10s)			
	Between Terminals To Case:3000Vac			
Insulation Resistance (IRxCN)	≥3000s (20℃,100Vdc,60s)			
Dissipation Factor	≤20x10 ⁻⁴ (1Khz,20℃)			
Note: If it is used outdoors or in places with high humidity for a long time, recommend to use a moisture-proof design.				

■ **Outline Drawing**



AC Filter capacitor for PCB

■ C6A Part Number System

The 16-digit part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Digit 1 to 3	Series Code: C6A = AC filter capacitor for (PCB)																																																								
Digit 4 to 6	Rated Capacitance Value: 104 = 10×10^4 pF = 0.1 μ F																																																								
Digit 7	Capacitance Tolerance: J = $\pm 5\%$; K = $\pm 10\%$																																																								
Digit 8 to 9	Rated Voltage: 18 = 500Vac; 25 = 250Vac; 30 = 300Vac; 35 = 350Vac																																																								
Digit 10 to 11	Dimensions Code: See The Dimension Comparison Table																																																								
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AC Filter capacitor for PCB

■ Technical data

Urms=180Vac, UN=250Vac, UNDC=300Vdc													
μF	Part number	Dimensions (mm)					pins	d ±0.05	L _s (nH)	Ī (A)	Î _s (A)	ESR(mΩ) @10KHZ	I _{max} (A) 10KHZ@70 °C
		W±1.0	T±1.0	H±1.0	P±1.0	b±0.5							
4.0	C6A405J18F2**0	31.5	13.0	21.5	27.5	--	2	1.0	16	280	840	6.7	7
5.0	C6A505J18F4**0	31.5	16.0	25.5	27.5	--	2	1.0	18	350	1050	5.3	8
6.8	C6A685J18F6**0	31.0	18.0	33.0	27.5	--	2	1.2	21	476	1428	3.9	11
10.0	C6A106J18F6**0	31.0	18.0	33.0	27.5	--	2	1.2	20	700	2100	2.7	13
10.0	C6A106J18S4**0	41.5	17.0	32.0	37.5	--	2	1.2	22	400	1200	4.9	10
15.0	C6A156J18S6**0	41.5	22.0	37.0	37.5	--	2	1.2	24	600	1800	3.3	14
18.0	C6A186J18S6**0	41.5	22.0	37.0	37.5	--	2	1.2	25	720	2160	2.7	14
20.0	C6A206J18S6**0	41.5	22.0	37.0	37.5	--	2	1.2	25	800	2400	2.5	14
22.0	C6A226J18S7**0	41.5	26.0	41.0	37.5	--	2	1.2	26	880	2640	2.2	14
25.0	C6A256J18S7**0	41.5	26.0	41.0	37.5	--	2	1.2	27	1000	3000	2.0	14
30.0	C6A306J18S9**0	42.0	30.0	45.0	37.5	--	2	1.2	28	1200	3600	1.6	14
33.0	C6A336J18S9**0	42.0	30.0	45.0	37.5	--	2	1.2	29	1320	3960	1.5	14
40.0	C6A406J18H4**0	57.0	29.5	43.5	52.5	20.3	4	1.2	26	800	2400	2.6	20
50.0	C6A506J18H6**0	57.0	35.0	50.0	52.5	20.3	4	1.2	28	1000	3000	2.1	24
60.0	C6A606J18H6**0	57.0	35.0	50.0	52.5	20.3	4	1.2	29	1200	3600	1.7	27

Urms=250Vac, U _N =350Vac, U _{NDC} =475Vdc													
μF	Part number	Dimensions (mm)					pins	d ±0.05	L _s (nH)	Ī (A)	Î _s (A)	ESR(mΩ) @10KHZ	I _{max} (A) 10KHZ@70°C
		W±1.0	T±1.0	H±1.0	P±1.0	b±0.5							
1.0	C6A105J25F0**0	31.5	9.0	18.0	27.5	--	2	1.0	20	90	270	19.3	3
1.5	C6A155J25F1**0	31.5	10.8	19.5	27.5	--	2	1.0	20	135	405	12.9	4
2.0	C6A205J25F2**0	31.5	13.0	21.5	27.5	--	2	1.0	20	180	540	9.6	5
2.2	C6A225J25F2**0	31.5	13.0	21.5	27.5	--	2	1.0	20	198	594	8.8	6
2.5	C6A255J25F2**0	31.5	13.0	21.5	27.5	--	2	1.0	20	225	675	7.7	6
3.0	C6A305J25F3**0	31.0	14.0	25.0	27.5	--	2	1.0	20	270	810	6.4	7
3.3	C6A335J25F3**0	31.0	14.0	25.0	27.5	--	2	1.0	21	294	891	5.8	8
3.5	C6A355J25F4**0	31.5	16.0	25.5	27.5	--	2	1.0	23	315	945	5.5	8
4.0	C6A405J25F6**0	31.0	18.0	33.0	27.5	--	2	1.2	22	360	1080	4.8	10
4.5	C6A455J25F6**0	31.0	18.0	33.0	27.5	--	2	1.2	23	405	1215	4.3	10
5.0	C6A505J25F6**0	31.0	18.0	33.0	27.5	--	2	1.2	23	450	1350	3.9	11
6.8	C6A685J25FA**0	31.5	22.0	37.0	27.5	--	2	1.2	24	612	1836	2.8	14
4.7	C6A475J25S2**0	41.5	14.0	28.0	37.5	--	2	1.2	24	282	846	7.8	7
5.0	C6A505J25S2**0	41.5	14.0	28.0	37.5	--	2	1.2	26	300	900	7.3	8
6.0	C6A605J25S4**0	41.5	17.0	32.0	37.5	--	2	1.2	26	360	1080	6.1	9

AC Filter capacitor for PCB

Urms=250Vac, U _N =350Vac, U _{NDC} =475Vdc													
μF	Part number	Dimensions (mm)					pins	d ±0.05	L _s (nH)	Ī (A)	Î _s (A)	ESR(mΩ) @10KHZ	I _{max} (A) 10KHZ@70°C
		W±1.0	T±1.0	H±1.0	P±1.0	b±0.5							
6.5	C6A655J25S4**0	41.5	17.0	32.0	37.5	--	2	1.2	26	390	1170	5.6	10
6.8	C6A685J25S5**0	41.5	18.5	33.5	37.5	--	2	1.2	27	408	1224	5.4	10
7.5	C6A755J25S5**0	41.5	18.5	33.5	37.5	--	2	1.2	27	450	1350	4.9	11
8.0	C6A805J25S6**0	41.5	22.0	37.0	37.5	--	2	1.2	27	480	1440	4.6	12
10.0	C6A106J25S6**0	41.5	22.0	37.0	37.5	--	2	1.2	28	600	1800	3.7	13
12.0	C6A126J25S7**0	41.5	26.0	41.0	37.5	--	2	1.2	29	720	2160	3.0	14
15.0	C6A156J25S7**0	41.5	26.0	41.0	37.5	--	2	1.2	30	900	2700	2.4	14
18.0	C6A186J25S8**0	41.5	28.0	43.0	37.5	--	2	1.2	31	1080	3240	2.0	14
20.0	C6A206J25S9**0	41.5	30.0	45.0	37.5	--	2	1.2	32	1200	3600	1.8	14
22.0	C6A226J25S7**0	41.5	30.0	45.0	37.5	--	2	1.2	33	1320	3960	1.7	14
25.0	C6A256J25H4**0	57.0	29.5	43.5	52.5	20.3	4	1.2	31	750	2250	3.3	18
30.0	C6A306J25H4**0	57.0	29.5	43.5	52.5	20.3	4	1.2	32	900	2700	2.7	20
35.0	C6A356J25H6**0	57.0	35.0	50.0	52.5	20.3	4	1.2	32	1050	3150	2.3	23
40.0	C6A406J25H6**0	57.0	35.0	50.0	52.5	20.3	4	1.2	33	1200	3600	2.0	25

Urms=300Vac, U _N =425Vac, U _{NDC} =560Vdc													
μF	Part number	Dimensions (mm)					pins	d ±0.05	L _s (nH)	Ī (A)	Î _s (A)	ESR(mΩ) @10KHZ	I _{max} (A) 10KHZ@70°C
		W±1.0	T±1.0	H±1.0	P±1.0	b±0.5							
1.0	C6A105J30F1**0	31.5	20.8	19.5	27.5	--	2	1.0	16	100	300	15.9	4
1.5	C6A155J30F2**0	31.5	13.0	21.5	27.5	--	2	1.0	17	150	450	10.6	5
2.0	C6A205J30F3**0	31.0	14.0	25.0	27.5	--	2	1.0	18	200	600	8.9	6
2.2	C6A225J30F3**0	31.0	14.0	25.0	27.5	--	2	1.0	18	220	660	8.0	7
2.5	C6A255J30F4**0	31.6	16.0	25.5	27.5	--	2	1.0	19	250	750	7.2	8
3.0	C6A305J30F6**0	31.0	18.0	33.0	27.5	--	2	1.2	21	300	900	6.4	9
3.3	C6A335J30F6**0	31.0	18.0	33.0	27.5	--	2	1.2	20	330	990	5.3	10
3.5	C6A355J30F6**0	31.0	18.0	33.0	27.5	--	2	1.2	21	350	1050	4.8	10
4.0	C6A405J30F6**0	31.0	18.0	33.0	27.5	--	2	1.2	21	400	1200	4.6	11
4.7	C6A475J30FA**0	31.5	22.0	37.0	27.5	--	2	1.2	22	470	1410	4.0	13
5.0	C6A505J30FA**0	31.5	22.0	37.0	27.5	--	2	1.2	22	500	1500	3.4	13
6.8	C6A685J30FA**0	31.5	22.0	37.0	27.5	--	2	1.2	23	680	2040	3.2	14
3.0	C6A305J30S2**0	41.5	14.0	28.0	37.5	--	2	1.2	22	210	630	10.1	6
3.3	C6A335J30S2**0	41.5	14.0	28.0	37.5	--	2	1.2	22	231	693	9.2	7
3.5	C6A355J30S2**0	41.5	14.0	28.0	37.5	--	2	1.2	23	245	375	8.6	7
4.0	C6A405J30S4**0	41.5	17.0	32.0	37.5	--	2	1.2	24	280	840	7.6	8
4.5	C6A455J30S4**0	41.5	17.0	32.0	37.5	--	2	1.2	24	315	945	6.7	9

AC Filter capacitor for PCB

Urms=300Vac, U _N =425Vac, U _{NDC} =560Vdc													
μF	Part number	Dimensions (mm)					pins	d ±0.05	L _s (nH)	Î (A)	Î _s (A)	ESR(mΩ) @10KHZ	I _{max} (A) 10KHZ@70°C
		W±1.0	T±1.0	H±1.0	P±1.0	b±0.5							
4.7	C6A475J30S4**0	41.5	17.0	32.0	37.5	--	2	1.2	24	329	987	6.4	9
5.0	C6A505J30S5**0	41.5	18.5	33.5	37.5	--	2	1.2	24	350	1050	6.0	10
6.0	C6A605J30S5**0	41.5	18.5	33.5	37.5	--	2	1.2	25	420	1260	5.0	11
6.8	C6A685J30S6**0	41.5	22.0	37.0	37.5	--	2	1.2	25	476	1428	4.4	12
8.0	C6A805J30S6**0	41.5	22.0	37.0	37.5	--	2	1.2	26	560	1680	3.8	13
10.0	C6A106J30S7**0	41.5	26.0	41.0	37.5	--	2	1.2	28	700	2100	3.0	14
12.0	C6A126J30S8**0	41.5	28.0	43.0	37.5	--	2	1.2	29	840	2520	2.5	14
15.0	C6A156J30S9**0	42.0	30.0	45.0	37.5	--	2	1.2	30	1050	315	2.1	14
18.0	C6A186J30H4**0	57.0	29.5	43.5	52.5	20.3	4	1.2	29	720	2160	3.8	17
20.0	C6A206J30H4**0	57.0	29.5	43.5	52.5	20.3	4	1.2	29	800	2400	3.4	18
22.0	C6A226J30H4**0	57.0	29.5	43.5	52.5	20.3	4	1.2	30	880	2640	3.1	20
25.0	C6A256J30H6**0	57.0	35.0	50.0	52.5	20.3	4	1.2	31	1000	3000	2.7	21
28.0	C6A286J30H6**0	57.0	35.0	50.0	52.5	20.3	4	1.2	32	1120	3360	2.4	23

Urms=350Vac, U _N =480Vac, U _{NDC} =600Vdc													
μF	Part number	Dimensions (mm)					pins	d ±0.05	L _s (nH)	Î (A)	Î _s (A)	ESR(mΩ) @10KHZ	I _{max} (A) 10KHZ@70°C
		W±1.0	T±1.0	H±1.0	P±1.0	b±0.5							
0.33	C6A334J35F0**0	31.5	9.0	18.0	27.5	--	2	0.8	17	17	51	53.9	1.6
0.39	C6A394J35F0**0	31.5	9.0	18.0	27.5	--	2	0.8	17	20	60	46.0	1.7
0.47	C6A474J35F0**0	31.5	9.0	18.0	27.5	--	2	0.8	17	24	72	38.6	1.9
0.68	C6A684J35F1**0	31.5	10.8	19.5	27.5	--	2	0.8	18	35	105	27.5	2.5
0.82	C6A824J35F2**0	31.5	13.0	21.5	27.5	--	2	0.8	18	42	126	23.3	3.0
1.0	C6A105J35F2**0	31.5	13.0	21.5	27.5	--	2	1.0	18	51	153	19.6	3.2
1.5	C6A155J35F3**0	31.0	14.0	25.0	27.5	--	2	1.0	19	76	228	14.0	4.2
2.0	C6A205J35F5**0	31.5	16.0	30.0	27.5	--	2	1.0	21	102	306	11.1	5.0
2.2	C6A225J35F5**0	31.5	16.0	30.0	27.5	--	2	1.0	20	112	336	10.4	5.2
2.5	C6A255J35F6**0	31.0	18.0	33.0	27.5	--	2	1.0	22	127	381	7.0	6.2
3.0	C6A305J35FA**0	31.5	22.0	37.0	27.5	--	2	1.0	24	153	459	5.8	7.4
3.3	C6A335J35FA**0	31.5	22.0	37.0	27.5	--	2	1.0	24	168	504	5.3	7.7
3.5	C6A355J35FA**0	31.5	22.0	37.0	27.5	--	2	1.0	23	178	534	5.0	7.9
4.0	C6A405J35FA**0	31.5	22.0	37.5	27.5	--	2	1.0	23	204	612	4.4	8.2
1.0	C6A105J35S0**0	41.5	11.0	22.0	37.5	--	2	1.0	24	36	108	28.0	2.8
1.5	C6A155J35S1**0	41.5	12.0	26.0	37.5	--	2	1.0	25	55	165	19.3	3.7
2.0	C6A205J35S2**0	41.5	14.0	28.0	37.5	--	2	1.0	26	73	219	14.9	4.6

AC Filter capacitor for PCB

Urms=350Vac, U _N =480Vac, U _{NDC} =600Vdc													
μF	Part number	Dimensions (mm)					pins	d ±0.05	L _s (nH)	Ī (A)	Î _s (A)	ESR(mΩ) @10KHZ	I _{max} (A) 10KHZ@70°C
		W±1.0	T±1.0	H±1.0	P±1.0	b±0.5							
2.2	C6A225J35S2**0=	41.5	14.0	28.0	37.5	--	2	1.0	25	80	240	13.7	4.8
2.5	C6A255J35S3**0=	41.5	16.0	30.0	37.5	--	2	1.0	27	91	273	12.3	5.3
3.0	C6A305J35S3**0=	41.5	16.0	30.0	37.5	--	2	1.0	26	109	327	10.5	5.7
3.3	C6A335J35S4**0=	41.5	17.0	32.0	37.5	--	2	1.0	29	120	360	9.7	6.2
3.5	C6A355J35S4**0=	41.5	17.0	32.0	37.5	--	2	1.0	28	128	384	9.3	6.4
4.0	C6A405J35S5**0=	41.5	18.5	33.5	37.5	--	2	1.0	29	146	438	8.3	7.0
4.5	C6A455J35S6**0=	41.5	22.0	37.0	37.5	--	2	1.0	31	164	492	7.6	8.0
5.0	C6A505J35S6**0=	41.5	22.0	37.0	37.5	--	2	1.0	30	182	546	7.0	8.3
5.5	C6A555J35S6**0=	41.5	22.0	37.0	37.5	--	2	1.0	29	201	603	6.6	8.6
6.0	C6A605J35S7**0=	41.5	26.0	41.0	37.5	--	2	1.0	32	219	657	6.2	9.7
6.5	C6A655J35S7**0=	41.5	26.0	41.0	37.5	--	2	1.0	31	237	711	5.8	10.0
7.0	C6A705J35S7**0=	41.5	26.0	41.0	37.5	--	2	1.0	31	255	765	5.5	10.3
7.5	C6A755J35S7**0=	41.5	26.0	41.0	37.5	--	2	1.0	30	274	822	5.3	10.5
8.0	C6A805J35S7**0=	41.5	26.0	41.0	37.5	--	2	1.0	30	292	876	5.1	10.5
8.5	C6A855J35S8**0=	41.5	28.0	43.0	37.5	--	2	1.0	32	310	930	4.9	10.5
9.0	C6A905J35S8**0=	41.5	28.0	43.0	37.5	--	2	1.0	31	328	986	4.7	10.7
9.5	C6A955J35S9**0=	42.0	30.0	45.0	37.5	--	2	1.0	33	347	1041	4.5	10.7
10.0	C6A106J35S9**0=	42.0	30.0	45.0	37.5	--	2	1.0	32	365	1095	4.4	10.9
10.0	C6A106J35H3**0=	57.0	25.0	45.0	52.5	--	2	1.2	34	260	780	5.7	11.6
11.0	C6A116J35H3**0=	57.0	25.0	45.0	52.5	--	2	1.2	33	286	858	5.3	11.9
12.0	C6A126J35H4**0=	57.0	29.5	43.5	52.5	20.3	4	1.2	29	312	936	4.4	14.1
15.0	C6A156J35H5**0=	57.0	35.0	45.0	52.5	20.3	4	1.2	31	391	1173	3.7	16.4
16.0	C6A166J35H5**0=	57.0	35.0	45.0	52.5	20.3	4	1.2	30	417	1251	3.5	16.8
18.0	C6A186J35H6**0=	57.0	35.0	50.0	52.5	20.3	4	1.2	33	469	1408	3.2	18.1
20.0	C6A206J35H7**0=	57.0	40.0	50.0	52.5	20.3	4	1.2	32	521	1563	2.9	19.8

Note:

1. “* *” indicates for internal recognition code.
2. “= =” indicates for lead-wire Forming Type code, see table 1.
3. “I_{max}” test conditions: the effective value of the ambient temperature is 70°C, the frequency is 100KHZ, and the shell temperature reaches 85°C.
4. “ESR” and “L_s” are both typical value test data.
5. “Urms=300Vac” : As the power supply voltage fluctuates, the maximum AC applied voltage is 300Vac. 300Vac is the maximum voltage when the power supply voltage fluctuates relative to the rated voltage of 240Vac, and is not a guaranteed value for continuous voltage application.
6. “Urms=350Vac” : Suitable for 277Vac grid voltage occasions.