

CAPACITOR



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AKMJ-PS
AC-filter

POWER LINKS SUCCESS

AC - filter AKMJ - PS series

Metalized film capacitor

Leads with tinned copper wire;small size.easy installation

Low ESL and ESR



High pulse current,
high dv/dt withstand capability

Plastic shell encapsulation,
dry resin infusion

Application

- Widely used in power electronic equipment used for the AC filter.

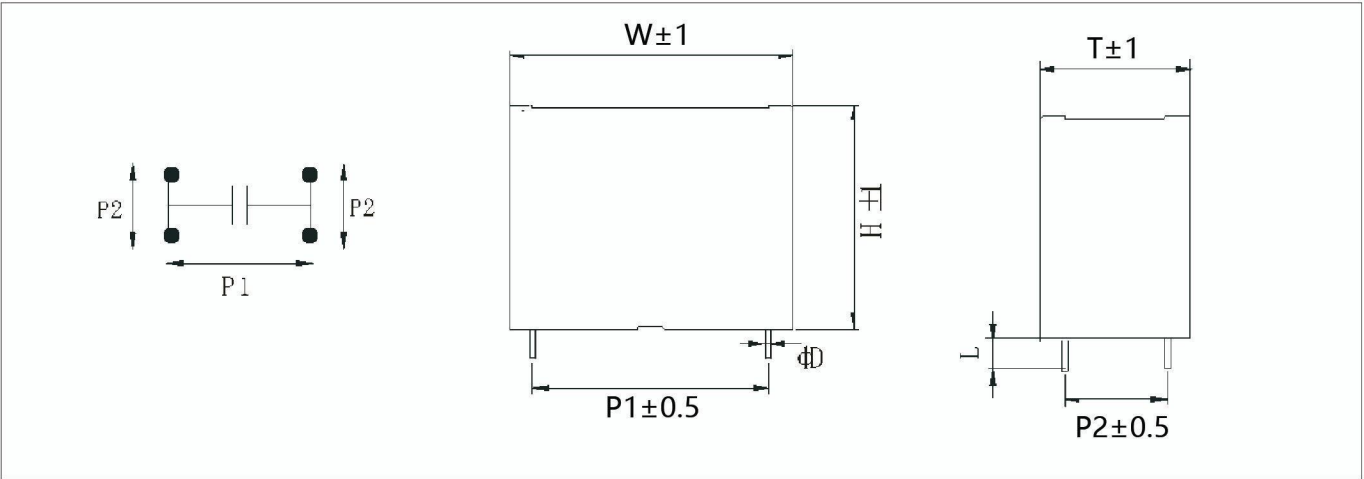
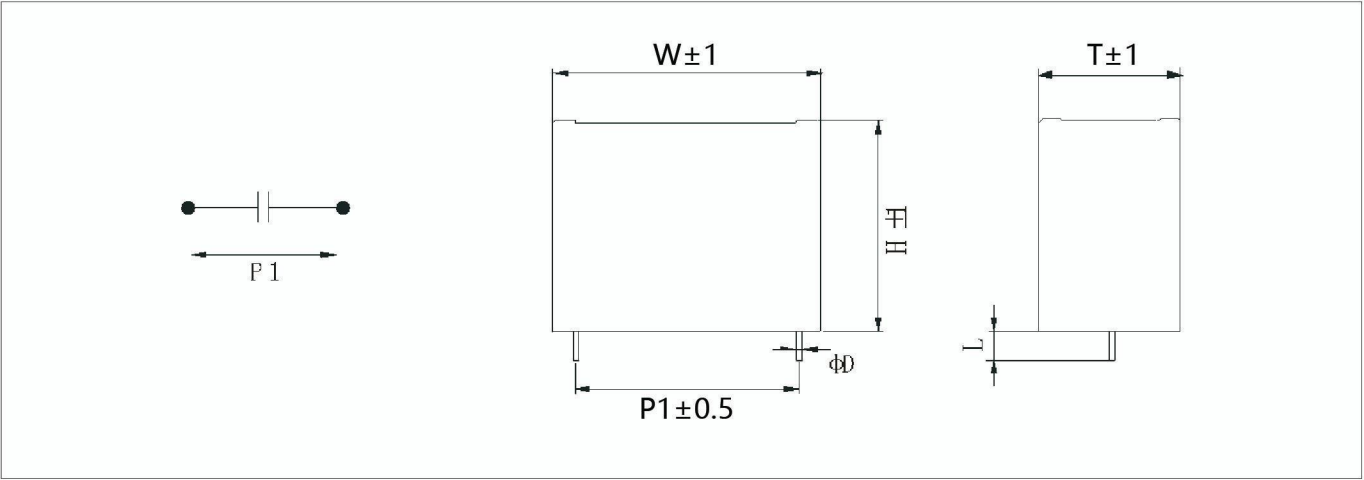
Technical data

Operating temperature range	-40°C ~ +105°C (+85°C to +105°C: decreasing factor 1.5% per °C for Urms)			
Capacitance range	4μF ~ 60μF	1μF ~ 40μF	1μF ~ 28μF	0.33μF ~ 27μF
Rated rms voltage(Urms)	180V.AC	250V.AC	300V.AC	350V.AC
Rated a.c. voltage(Un)	250V.AC	350V.AC	425V.AC	480V.AC
Maximum continuous DC voltage	300V.DC	475V.DC	560V.DC	600V.DC
Cap.tol	±5% (J) ; ±10% (K)			
Maximum applicable peak to peak ripple voltage	0.2×UNDC			
Withstand voltage	vt-t		1.5UN (V.AC) / 10s	
	vt-c		3000V.AC/60s	
Over voltage	1.1UN (30% of on – load – dur.)			
	1.15UN (30min / day)			
	1.2UN (5min / day)			
	1.3UN (1min / day)			
	1.5UN (100ms every time,1000 times during the lifetime)			
Dissipation factor	Tgδ ≤ 0.002 f = 1kHz			
Self inductance	< 1 nH per mm of lead spacing			
Insulation resistance	Rs×C ≥ 10000s (at 20°C 100V.DC)			
Flame retardation	UL94V-0			
Reference standard	IEC61071; GB/T 17702			



01

外形图 The contour map



Part number system

Urms	180V.AC	250V.AC	300V.AC	350V.AC
UN	250V.AC	350V.AC	425V.AC	480V.AC
UNDC	300V.DC	475V.DC	560V.DC	600V.DC

Part number system

Model	Capacitance	Rated Voltage (DC)	Tolerance	Terminal	P1	P2	L	Internal feature code
1-3	4-6	7~10	11	12	13	14	15	16-17
APS	156=15×10 ⁶ pF=15μF	0180=180V.AC	J=±5% K=±10%	2 : 2Pin 4 : 4Pin	1 : P1=37.5 2 : P1=52.5 3 : P1=27.5	0 : 无 1 : P1=10.2 2 : P1=20.3	1 : L=4 2 : L=15	01

02



AC - filter AKMJ - PS series

Metalized film capacitor

Specification table

C _N (μF)	wires	φD (mm)	W (mm)	T (mm)	H (mm)	P1 (mm)	P2 (mm)	ESR @100kHz (mΩ)	ESL (nH)	I _p (A)	I _s (A)	I _{max} @10kHz 70°C (A)	Part number
U _{rms} = 180V.AC , U _N = 250V.AC , U _{NDC} = 300V.DC													
4.0	2	1.0	32.0	13.0	22.0	27.5	----	6.7	16	280	840	7	APS4050180*230***
5.0	2	1.0	32.0	14.0	28.0	27.5	----	5.3	18	350	1050	8	APS5050180*230***
6.8	2	1.2	32.0	18.0	33.0	27.5	----	3.9	21	476	1428	11	APS6850180*230***
10	2	1.2	32.0	18.0	33.0	27.5	----	2.7	20	700	2100	13	APS1060180*230***
10	2	1.2	41.0	17.0	32.0	37.5	----	4.9	22	400	1200	10	APS1060180*210***
15	2	1.2	41.0	22.0	37.0	37.5	----	3.3	24	600	1800	14	APS1560180*210***
18	2	1.2	42.0	23.0	36.0	37.5	----	2.7	25	720	2160	14	APS1860180*210***
20	2	1.2	42.0	23.0	36.0	37.5	----	2.5	25	800	2400	14	APS2060180*210***
22	2	1.2	41.0	26.0	41.0	37.5	----	2.2	26	880	2640	14	APS2260180*210***
25	2	1.2	41.0	26.2	41.0	37.5	----	2.0	27	1000	3000	14	APS2560180*210***
30	2	1.2	42.0	30.0	45.0	37.5	----	1.6	28	1200	3600	14	APS3060180*210***
33	2	1.2	42.0	30.0	45.0	37.5	----	1.5	29	1320	3960	14	APS3360180*210***
40	4	1.2	57.0	29.5	43.5	52.5	20.3	2.6	26	800	2400	20	APS4060180*422***
50	4	1.2	57.0	35.0	50.0	52.5	20.3	2.1	28	1000	3000	24	APS5060180*422***
60	4	1.2	57.0	35.0	50.0	52.5	20.3	1.7	29	1200	3600	27	APS6060180*422***
U _{rms} = 250V.AC , U _N = 350V.AC , U _{NDC} = 475V.DC													
1.0	2	1.0	32.0	9.0	18.0	27.5	----	19.3	20	90	270	3	APS1050250*230***
1.5	2	1.0	32.0	11.0	20.0	27.5	----	12.9	20	135	405	4	APS1550250*230***
2.0	2	1.0	32.0	13.0	22.0	27.5	----	9.6	20	180	540	5	APS2050250*230***
2.2	2	1.0	32.0	13.0	22.0	27.5	----	8.8	20	198	594	6	APS2250250*230***
2.5	2	1.0	32.0	13.0	22.0	27.5	----	7.7	20	225	675	6	APS2550250*230***
3.0	2	1.0	32.0	15.0	24.5	27.5	----	6.4	20	270	810	7	APS3050250*230***
3.3	2	1.0	32.0	15.0	24.5	27.5	----	5.8	21	297	891	8	APS3350250*230***
3.5	2	1.0	32.0	14.0	28.0	27.5	----	5.5	23	315	945	8	APS3550250*230***
4.0	2	1.2	32.0	18.0	33.0	27.5	----	4.8	22	360	1080	10	APS4050250*230***
4.5	2	1.2	32.0	18.0	33.0	27.5	----	4.3	23	405	1215	10	APS4550250*230***
5.0	2	1.2	32.0	18.0	33.0	27.5	----	3.9	23	450	1350	11	APS5050250*230***
6.8	2	1.2	32.0	22.0	37.0	27.5	----	2.8	24	612	1836	14	APS6850250*230***
4.7	2	1.2	41.0	15.0	26.0	37.5	----	7.8	24	282	846	7	APS4750250*210***
5.0	2	1.2	42.0	14.0	28.0	37.5	----	7.3	26	300	900	8	APS5050250*210***
6.0	2	1.2	41.0	17.0	32.0	37.5	----	6.1	26	360	1080	9	APS6050250*210***



Specification table

C _N (μF)	wires	φD (mm)	W (mm)	T (mm)	H (mm)	P1 (mm)	P2 (mm)	ESR @100kHz (mΩ)	ESL (nH)	I _p (A)	I _s (A)	I _{max} @10kHz 70°C (A)	Part number
U _{rms} = 250V.AC , U _N = 350V.AC , U _{NDC} = 475V.DC													
6.5	2	1.2	41.0	17.0	32.0	37.5	----	5.6	26	390	1170	10	APS6550250*210***
6.8	2	1.2	41.0	18.5	33.5	37.5	----	5.4	27	408	1224	10	APS6850250*210***
7.5	2	1.2	41.0	18.5	33.5	37.5	----	4.9	27	450	1350	11	APS7550250*210***
8.0	2	1.2	41.0	22.0	37.0	37.5	----	4.6	27	480	1440	12	APS8050250*210***
10	2	1.2	41.0	22.0	37.0	37.5	----	3.7	28	600	1800	13	APS1060250*210***
12	2	1.2	41.0	26.0	41.0	37.5	----	3.0	29	720	2160	14	APS1260250*210***
15	2	1.2	41.0	26.0	41.0	37.5	----	2.4	30	900	2700	14	APS1560250*210***
18	2	1.2	41.0	28.0	43.0	37.5	----	2.0	31	1080	3240	14	APS1860250*210***
20	2	1.2	42.0	30.0	45.0	37.5	----	1.8	32	1200	3600	14	APS2060250*210***
22	2	1.2	42.0	30.0	45.0	37.5	----	1.7	33	1320	3960	14	APS2260250*210***
25	4	1.2	57.0	29.5	43.5	52.5	20.3	3.3	31	750	2250	18	APS2560250*422***
30	4	1.2	57.0	29.5	43.5	52.5	20.3	2.7	32	900	2700	20	APS3060250*422***
35	4	1.2	57.0	35.0	50.0	52.5	20.3	2.3	32	1050	3150	23	APS3560250*422***
40	4	1.2	57.0	35.0	50.0	52.5	20.3	2.0	33	1200	3600	25	APS4060250*422***
U _{rms} = 300V.AC , U _N = 425V.AC , U _{NDC} = 560V.DC													
1.0	2	1.0	32.0	11.0	20.0	27.5	----	15.9	16	100	300	4	APS1050300*230***
1.5	2	1.0	32.0	13.0	22.0	27.5	----	10.6	17	150	450	5	APS1550300*230***
2.0	2	1.0	32.0	15.0	24.5	27.5	----	8.9	18	200	600	6	APS2050300*230***
2.2	2	1.0	32.0	15.0	24.5	27.5	----	8.0	18	220	660	7	APS2250300*230***
2.5	2	1.0	32.0	14.0	28.0	27.5	----	7.2	19	250	750	8	APS2550300*230***
3.0	2	1.2	32.0	18.0	33.0	27.5	----	6.4	21	300	900	9	APS3050300*230***
3.3	2	1.2	32.0	18.0	33.0	27.5	----	5.3	20	330	990	10	APS3350300*230***
3.5	2	1.2	32.0	18.0	33.0	27.5	----	4.8	21	350	1050	10	APS3550300*230***
4.0	2	1.2	32.0	18.0	33.0	27.5	----	4.6	21	400	1200	11	APS4050300*230***
4.7	2	1.2	32.0	22.0	37.0	27.5	----	4.0	22	470	1410	13	APS4750300*230***
5.0	2	1.2	32.0	22.0	37.0	27.5	----	3.4	22	500	1500	13	APS5050300*230***
6.8	2	1.2	32.0	22.0	37.0	27.5	----	3.2	23	680	2040	14	APS6850300*230***
3.0	2	1.2	41.0	15.0	26.0	37.5	----	10.1	22	210	630	6	APS3050300*210***
3.3	2	1.2	41.0	15.0	26.0	37.5	----	9.2	22	231	693	7	APS3350300*210***
3.5	2	1.2	42.0	14.0	28.0	37.5	----	8.6	23	245	735	7	APS3550300*210***
4.0	2	1.2	41.0	17.0	32.0	37.5	----	7.6	24	280	840	8	APS4050300*210***



AC - filter AKMJ - PS series
Metalized film capacitor

Specification table

C _N (μF)	wires	φD (mm)	W (mm)	T (mm)	H (mm)	P1 (mm)	P2 (mm)	ESR @100kHz (mΩ)	ESL (nH)	I _p (A)	I _s (A)	I _{max} @10kHz 70°C (A)	Part number
U _{rms} = 300V.AC , U _N = 425V.AC , U _{NDC} = 560V.DC													
4.5	2	1.2	41.0	17.0	32.0	37.5	----	6.7	24	315	945	9	APS4550300*210***
4.7	2	1.2	41.0	17.0	32.0	37.5	----	6.4	24	329	987	9	APS4750300*210***
5.0	2	1.2	41.0	18.5	33.5	37.5	----	6.0	24	350	1050	10	APS5050300*210***
6.0	2	1.2	41.0	18.5	33.5	37.5	----	5.0	25	420	1260	11	APS6050300*210***
6.8	2	1.2	41.0	22.0	37.0	37.5	----	4.4	25	476	1428	12	APS6850300*210***
8.0	2	1.2	41.0	22.0	37.0	37.5	----	3.8	26	560	1680	13	APS8050300*210***
10	2	1.2	41.0	26.0	41.0	37.5	----	3.0	28	700	2100	14	APS1060300*210***
12	2	1.2	41.0	28.0	43.0	37.5	----	2.5	29	840	2520	14	APS1260300*210***
15	2	1.2	42.0	30.0	45.0	37.5	----	2.1	30	1050	3150	14	APS1560300*210***
18	4	1.2	57.0	29.5	43.5	52.5	20.3	3.8	29	720	2160	17	APS1860300*422***
20	4	1.2	57.0	29.5	43.5	52.5	20.3	3.4	29	800	2400	18	APS2060300*422***
22	4	1.2	57.0	29.5	43.5	52.5	20.3	3.1	30	880	2640	20	APS2260300*422***
25	4	1.2	57.0	35.0	50.0	52.5	20.3	2.7	31	1000	3000	21	APS2560300*422***
28	4	1.2	57.0	35.0	50.0	52.5	20.3	2.4	32	1120	3360	23	APS2860300*422***
U _{rms} = 350V.AC , U _N = 480V.AC , U _{NDC} = 600V.DC													
0.33	2	0.8	32.0	9.0	18.0	27.5	----	53.9	17	17	50	1.6	APS3340350*230***
0.39	2	0.8	32.0	9.0	18.0	27.5	----	46.0	17	20	60	1.7	APS3940350*230***
0.47	2	0.8	32.0	9.0	18.0	27.5	----	38.6	17	24	72	1.9	APS4740350*230***
0.68	2	0.8	32.0	11.0	20.0	27.5	----	27.5	18	35	104	2.5	APS6840350*230***
0.82	2	0.8	32.0	13.0	22.0	27.5	----	23.3	18	42	125	3.0	APS8240350*230***
1.0	2	0.8	32.0	13.0	22.0	27.5	----	19.6	18	51	153	3.2	APS1050350*230***
1.5	2	0.8	32.0	15.0	24.5	27.5	----	14.0	19	76	229	4.2	APS1550350*230***
2.0	2	0.8	32.0	16.0	30.0	27.5	----	11.1	21	102	306	5.0	APS2050350*230***
2.2	2	0.8	32.0	16.0	30.0	27.5	----	10.4	20	112	336	5.2	APS2250350*230***
2.5	2	1.0	32.0	18.0	33.0	27.5	----	7.0	22	127	382	6.2	APS2550350*230***
3.0	2	1.0	32.0	18.0	33.0	27.5	----	6.1	21	145	435	6.5	APS3050350*230***
3.0	2	1.0	32.0	22.0	37.0	27.5	----	5.8	24	153	458	7.4	APS3050350*230***
3.3	2	1.0	32.0	22.0	37.0	27.5	----	5.3	24	168	504	7.7	APS3350350*230***
3.5	2	1.0	32.0	22.0	37.0	27.5	----	5.0	23	178	535	7.9	APS3550350*230***
4.0	2	1.0	32.0	22.0	37.0	27.5	----	4.4	23	204	611	8.2	APS4050350*230***
1.0	2	1.0	41.0	11.0	22.0	37.5	----	28.0	24	36	109	2.8	APS1050350*210***



规格表 Specification table

C _N (μF)	wires	φD (mm)	W (mm)	T (mm)	H (mm)	P1 (mm)	P2 (mm)	ESR @100kHz (mΩ)	ESL (nH)	I _p (A)	I _s (A)	I _{max} @10kHz 70°C (A)	Part number
U _{rms} = 350V.AC , U _N = 480V.AC , U _{NDC} = 600V.DC													
1.5	2	1.0	41.0	13.0	24.0	37.5	----	19.3	25	55	164	3.7	APS1550350*210***
2.0	2	1.0	41.0	15.0	26.0	37.5	----	14.9	26	73	219	4.6	APS2050350*210***
2.2	2	1.0	41.0	15.0	26.0	37.5	----	13.7	25	80	241	4.8	APS2250350*210***
2.5	2	1.0	41.0	16.0	30.0	37.5	----	12.3	27	91	274	5.3	APS2550350*210***
3.0	2	1.0	41.0	16.0	30.0	37.5	----	10.5	26	109	328	5.7	APS3050350*210***
3.3	2	1.0	41.0	17.0	32.0	37.5	----	9.7	29	120	361	6.2	APS3350350*210***
3.5	2	1.0	41.0	17.0	32.0	37.5	----	9.3	28	128	383	6.4	APS3550350*210***
4.0	2	1.0	41.0	18.5	33.5	37.5	----	8.3	29	146	438	7.0	APS4050350*210***
4.5	2	1.0	41.0	22.0	37.0	37.5	----	7.6	31	164	493	8.0	APS4550350*210***
4.7	2	1.0	41.0	22.0	37.0	37.5	----	7.0	30	182	547	8.3	APS4750350*210***
5.0	2	1.0	41.0	22.0	37.0	37.5	----	7.0	30	182	547	8.3	APS5050350*210***
5.5	2	1.0	41.0	22.0	37.0	37.5	----	6.6	29	201	602	8.6	APS5550350*210***
6.0	2	1.0	41.0	26.0	41.0	37.5	----	6.2	32	219	657	9.7	APS6050350*210***
6.5	2	1.0	41.0	26.0	41.0	37.5	----	5.8	31	237	712	10.0	APS6550350*210***
7.0	2	1.0	41.0	26.0	41.0	37.5	----	5.5	31	255	766	10.3	APS7050350*210***
7.5	2	1.0	41.0	26.0	41.0	37.5	----	5.3	30	274	821	10.5	APS7550350*210***
8.0	2	1.0	41.0	26.0	41.0	37.5	----	5.1	30	292	876	10.5	APS8050350*210***
8.5	2	1.0	41.0	28.0	43.0	37.5	----	4.9	32	310	930	10.5	APS8550350*210***
9.0	2	1.0	41.0	28.0	43.0	37.5	----	4.7	31	328	985	10.5	APS9050350*210***
9.5	2	1.0	42.0	30.0	45.0	37.5	----	4.5	33	347	1040	10.5	APS9550350*210***
10	2	1.0	42.0	30.0	45.0	37.5	----	4.4	32	365	1095	10.5	APS1060350*210***
10	2	1.2	57.0	25.0	45.0	52.5	----	5.7	34	260	781	11.6	APS1060350*220***
11	2	1.2	57.0	25.0	45.0	52.5	----	5.3	33	286	859	11.9	APS1160350*220***
12	4	1.2	57.0	29.5	43.5	52.5	20.3	4.4	29	312	937	14.1	APS1260350*422***
15	4	1.2	57.0	35.0	50.0	52.5	20.3	3.7	31	391	1172	16.4	APS1560350*422***
16	4	1.2	57.0	35.0	50.0	52.5	20.3	3.5	30	417	1250	16.8	APS1660350*422***
18	4	1.2	57.0	35.0	50.0	52.5	20.3	3.2	33	469	1406	18.1	APS1860350*422***
20	4	1.2	57.0	45.0	55.0	52.5	20.3	2.9	32	521	1562	19.8	APS2060350*422***

续上表

