

AC - filter 金属化薄膜电容器 AKMJ - PS series Metalized film capacitor

镀锡铜线引出, 体积小, 安装简单方便
Leads with tinned copper wire; small size. easy installation

自感 (ESL) 小, 等效串联电阻 (ESR) 小
Low ESL and ESR



塑料外壳封装, 阻燃树脂灌注
Plastic shell encapsulation, dry resin infusion

高脉冲电流, 高 dv / dt 承受能力
High pulse current, high dv/dt withstand capability

应用

- 广泛应用于电力电子设备中作交流滤波用。

Application

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

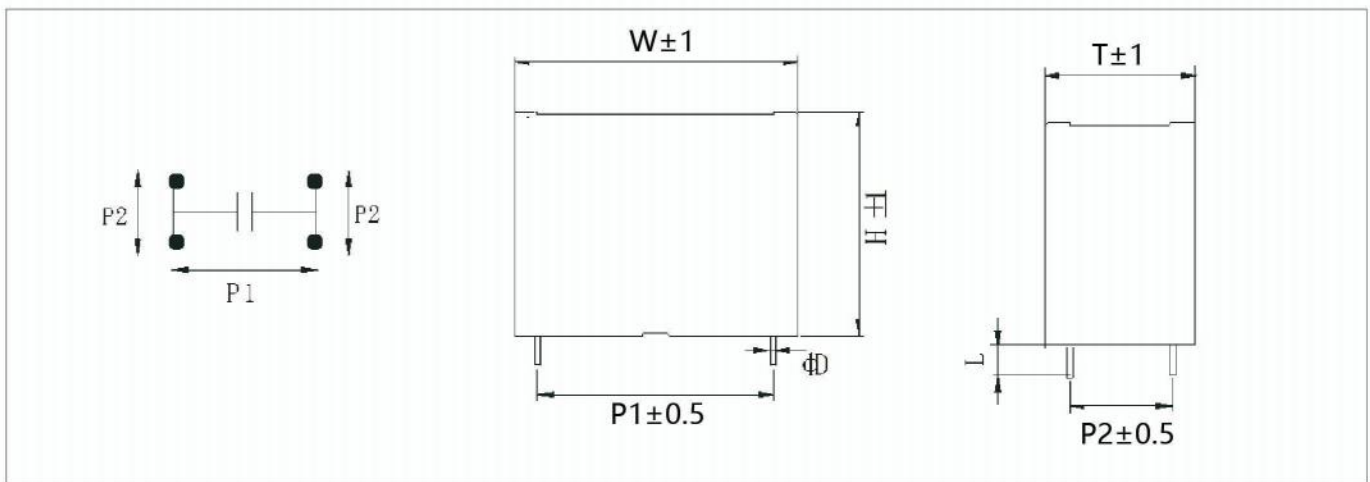
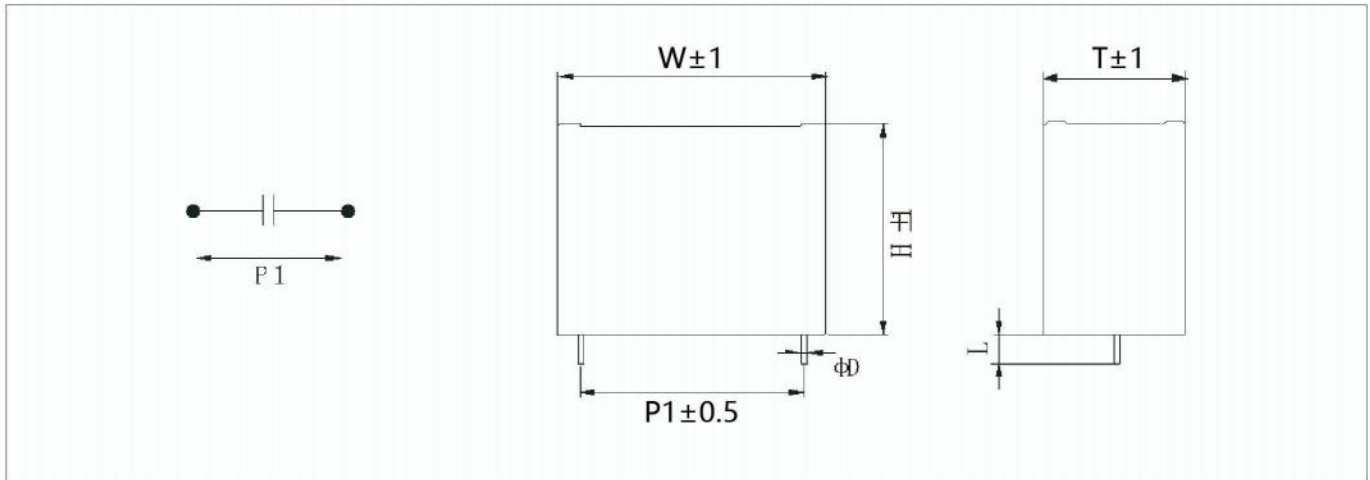
性能参数 Technical data

工作温度范围 / Operating temperature range	-40°C ~ +105°C (+85°C to +105°C: decreasing factor 1.5% per °C for Urms)			
容量范围 / Capacitance range	4μF ~ 60μF	1μF ~ 40μF	1μF ~ 28μF	0.33μF ~ 27μF
额定均方根电压 / Rated rms voltage (Urms)	180V.AC	250V.AC	300V.AC	350V.AC
额定交流电压 / Rated a.c. voltage (Un)	250V.AC	350V.AC	425V.AC	480V.AC
最大连续直流电压 / Maximum continuous DC voltage	300V.DC	475V.DC	560V.DC	600V.DC
容量偏差 / Cap.tol	±5% (J) ; ±10% (K)			
最大纹波电压 / Maximum applicable peak to peak ripple voltage	0.2 × UNDC			
耐压 / Withstand voltage	vt-t	1.5UN (V.AC) / 10s		
	vt-c	3000V.AC/60s		
过电压 / 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)			
损耗角正切 / Dissipation factor	Tgδ ≤ 0.002 f = 1kHz			
自感 / Self inductance	< 1 nH per mm of lead spacing			
绝缘电阻 / Insulation resistance	Rs × C ≥ 10000s (at 20°C 100V.DC)			
阻燃性 / Flame retardation	UL94V-0			
引用标准 / Reference standard	IEC61071; GB/T 17702			



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外形图 The contour map



产品编码说明 Part number system

U_{rms}	180V.AC	250V.AC	300V.AC	350V.AC
U_N	250V.AC	350V.AC	425V.AC	480V.AC
U_{NDC}	300V.DC	475V.DC	560V.DC	600V.DC

产品编码说明 Part number system

型号	容量	额定电压 (直流)	容偏	引出数量	脚距P1	脚距P2	引出长度L	内部特征码
1-3	4-6	7~10	11	12	13	14	15	16-17
APS	$156=15 \times 10^6 \text{pF}=15\mu\text{F}$	0180=180V.AC	J= $\pm 5\%$ K= $\pm 10\%$	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



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规格表 Specification table

续上表

CN (μF)	wires	ϕD (mm)	W (mm)	T (mm)	H (mm)	P1 (mm)	P2 (mm)	ESR @100kHz (m Ω)	ESL (nH)	I _p (A)	I _s (A)	I _{max} @10kHz 70°C (A)	Part number
$U_{rms} = 180\text{V.AC}$, $U_N = 250\text{V.AC}$, $U_{NDC} = 300\text{V.DC}$													
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***
$U_{rms} = 250\text{V.AC}$, $U_N = 350\text{V.AC}$, $U_{NDC} = 475\text{V.DC}$													
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***



规格表 Specification table

续上表

CN (μF)	wires	φD (mm)	W (mm)	T (mm)	H (mm)	P1 (mm)	P2 (mm)	ESR @100kHz (m Ω)	ESL (nH)	I _p (A)	I _s (A)	I _{max} @10kHz 70°C (A)	Part number
$U_{rms} = 250\text{V.AC}$, $U_N = 350\text{V.AC}$, $U_{NDC} = 475\text{V.DC}$													
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***
$U_{rms} = 300\text{V.AC}$, $U_N = 425\text{V.AC}$, $U_{NDC} = 560\text{V.DC}$													
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***



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规格表 Specification table

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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***



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规格表 Specification table

续上表

CN (μF)	wires	φD (mm)	W (mm)	T (mm)	H (mm)	P1 (mm)	P2 (mm)	ESR @100kHz (m Ω)	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***

