

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



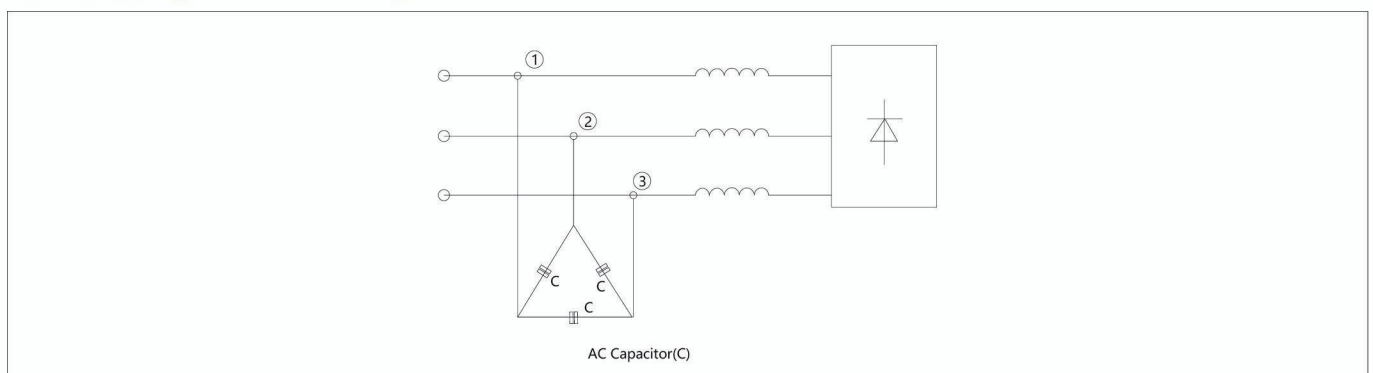
应用

- 广泛应用于电力电子设备中作交流滤波用。
- 在大功率UPS, 开关电源, 变频器等设备中作交流滤波, 治理谐波及提高功率因数。

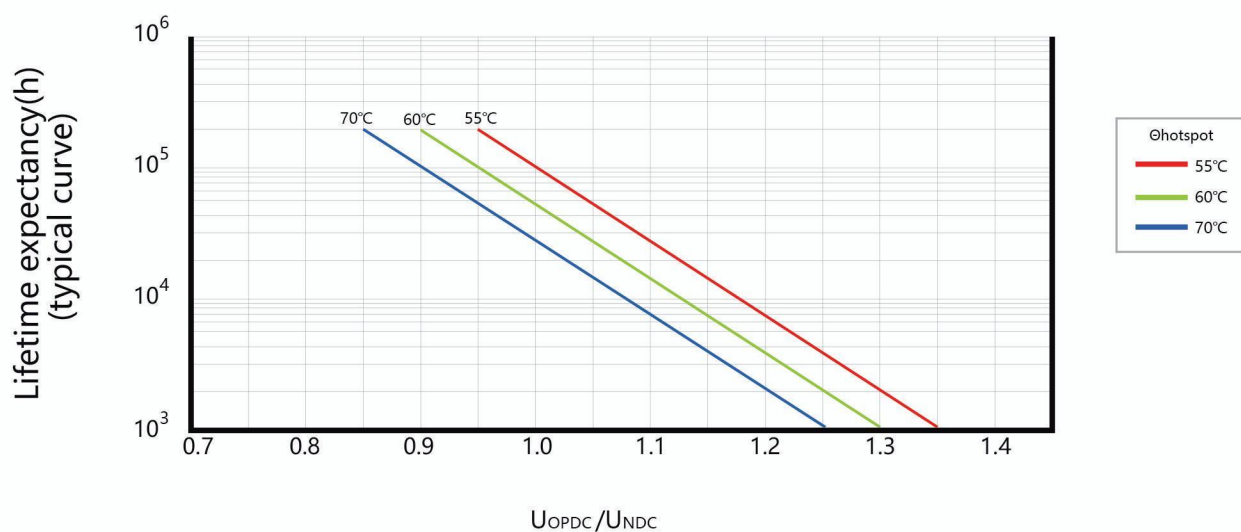
Application

- Widely used in power electronic equipment used for the AC filter.
- In the high-power UPS, switching power supply, inverter and other equipment for the AC filter, harmonics and improve power factor control.

典型线路图 Typical circuit diagram



预期寿命曲线图 Life expectancy in the graph



性能参数 Technical data

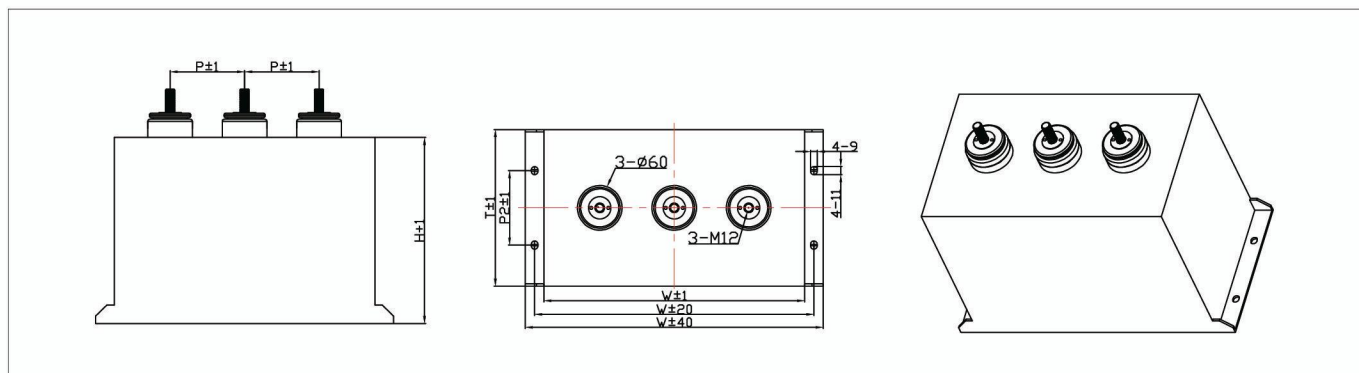
工作温度范围 / Operating temperature range	Max. Operating temperature, $T_{\text{op,max}}$: + 85°C	
	Upper category temperature : +55°C	
	Lower category temperature: -40°C	
容量范围 (C_N) / Capacitance range	3×40μF ~ 3×500μF	
额定电压 (U_N) / Rated voltage	450V.AC/50Hz ~ 1140V.AC/50Hz	
容量偏差 / Cap.tol	±5% (J)	
耐电压 / Withstand voltage	$V_t - t$	2.15 U_N /10s
	$V_t - c$	1000 + 2× U_N V.AC 60s (min3000V.AC)
过电压/Over voltage	1.1 U_N (30% of on - load - dur.)	
	1.15 U_N (30min / day)	
	1.2 U_N (5min / day)	
	1.3 U_N (1min / day)	
	1.5 U_N (100ms every time,1000times during the lifetime)	
损耗角正切 / Dissipation factor	$\text{tg}\delta \leq 0.002$ $f = 100\text{Hz}$	
	介质损耗 $\text{tg}\delta_0 \leq 0.0002$	
绝缘电阻 / Insulation resistance	(内置放电电阻) /(Built-in discharge resistor)	
耐脉冲电流冲击 / Withstand strike current	具体见规格表/See the specification sheet	
有效电流 / Irms	具体见规格表/See the specification sheet	
杂散电感 / ESL	< 100nH	
阻燃性 / Flame retardation	UL94V - 0	
最高使用海拔高度 / Maximum altitude	2000m	
	Derating should be considered when the altitude is between 2000m -5000m. (For each increase of 1000m, voltage and current will be reduced by 10%)	
预期寿命 / Life expectancy	100000h (U_N ; $\Theta_{\text{hotspot}} \leq 55^\circ\text{C}$)	
引用标准 / Reference standard	IEC61071; IEC60831	



AC - filter 金属化薄膜电容器 AKMJ - S series

Metalized film capacitor

外形图 The contour map



规格表 Specification table

C_N (μF)	W (mm)	T (mm)	H (mm)	dv/dt (V/ μS)	I_p (A)	I_{rms} 50°C (A)	ESR 1kHz (m Ω)	R_{th} (K/W)	Weight (kg)
U _N 400V.AC 50Hz									
3×200	225	120	170	50	10.0	3×70	3×0.95	1.1	7
3×300	225	120	235	40	12.0	3×90	3×0.85	0.8	9
3×400	295	120	235	35	14.0	3×120	3×0.80	0.7	12
3×500	365	120	235	30	15.0	3×160	3×0.78	0.6	15
U _N 500V.AC 50Hz									
3×120	225	120	170	60	7.2	3×50	3×1.2	1.1	7
3×180	225	120	235	50	9.0	3×70	3×1.05	0.8	9
3×240	295	120	235	45	10.8	3×100	3×1.0	0.7	12
3×300	365	120	235	40	12.0	3×120	3×0.9	0.6	15
U _N 690V.AC 50Hz									
3×50	225	120	170	100	5.0	3×50	3×2.3	1.1	7
3×75	225	120	235	90	6.8	3×70	3×2.1	0.8	9
3×100	295	120	235	80	8.0	3×100	3×1.6	0.7	12
3×125	365	120	235	80	10.0	3×120	3×1.3	0.6	15
U _N 1140V.AC 50Hz									
3×42	340	175	200	120	5.0	3×80	3×3.3	0.6	17.3
3×60	420	175	250	100	6.0	3×100	3×2.8	0.5	26



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

铜螺母 / 螺杆引出, 塑料定位盖

绝缘, 安装简单方便

Copper nut / screw leads, insulated
plastic cover positioning, easy
installation

铝圆外壳封装, 干式树脂灌注

Aluminum round housing package,
sealed with resin

耐压高, 具有自愈性

Resistance to high voltage, with
self-healing

高纹波电流, 高dv/dt承受能力

High ripple current, high dv/dt
withstand capability

容量大, 体积小

Large capacity, small size



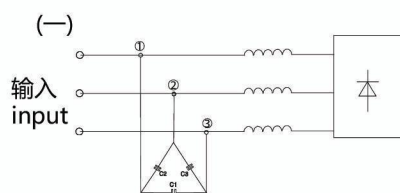
应用

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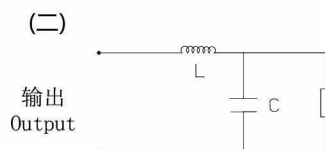
Application

- Widely used in power electronic equipment used for the AC filter.
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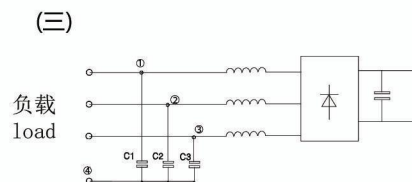
典型线路图 Typical circuit diagram



AC Filter 电容 ($C_1=C_2=C_3$)
--三相三角形接法/Three-phase delta connection



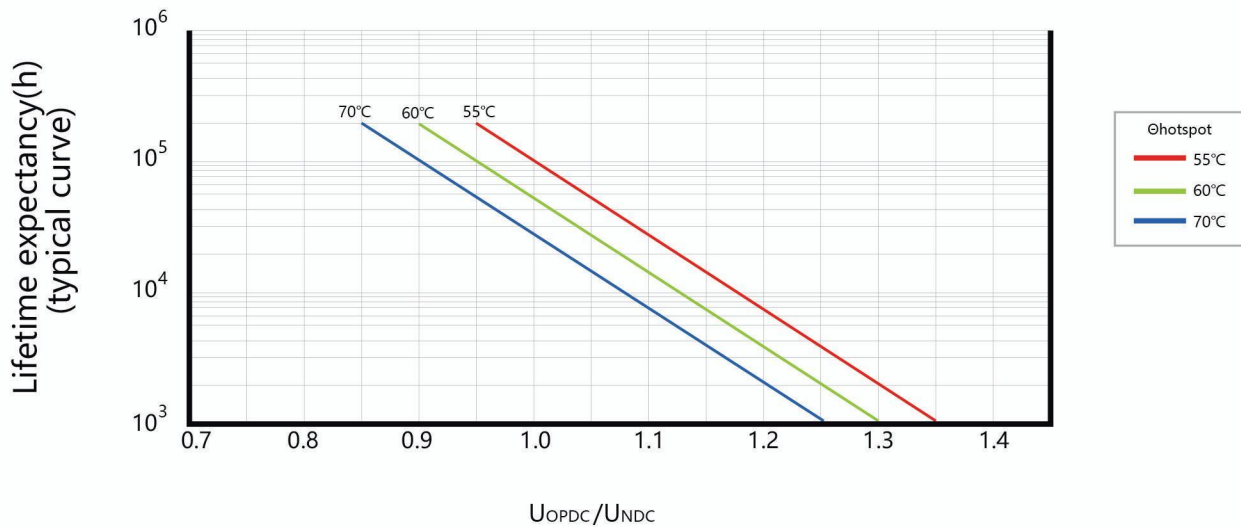
AC Filter 电容 (C)
--单相/Single phase



AC Filter 电容 ($C_1=C_2=C_3$)
--三相星型接法/Three-phase star connection



预期寿命曲线图 Life expectancy in the graph



性能参数 Technical data

工作温度范围 / Operating temperature range		Max.Operating temperature, $T_{\text{op,max}}$: + 85°C
		Upper category temperature : + 70°C
		Lower category temperature re:- 40°C
容量范围(C_N) /Capacitance range	single phase	20 μ F - 500 μ F
	three phase	3 $\times$ 40 μ F - 3 $\times$ 200 μ F
额定电压(U_N) / Rated voltage		330V. AC / 50Hz - 1140V. AC / 50Hz
容量偏差 / Cap.tol		$\pm 5\%$ (J) ; $\pm 10\%$ (K)
耐电压 / Withstand voltage		$v_t - t$ 2.15 U_N / 10s
		$v_t - c$ 1000 + 2 $\times U_N$ V. AC 60s (min3000V. AC)
过电压 / Over voltage		1.1 U_N (30% of on - load - dur.)
		1.15 U_N (30min / day)
		1.2 U_N (5min / day)
		1.3 U_N (1min / day)
		1.5 U_N (100ms every time,1000 times during the lifetime)
损耗角正切 / Dissipation factor		$\text{tg}\delta \leq 0.002$ $f = 100\text{Hz}$
		介质损耗 $\text{tg}\delta_0 \leq 0.0002$
绝缘电阻 / Insulation resistance		$R_s \times C \geq 10000\text{s}$ (at20°C 100V.DC)
耐脉冲电流冲击 / Withstand strike current		具体见规格表/See the specification sheet
有效电流 / I_{rms}		具体见规格表/See the specification sheet
阻燃性 / Flame retardation		UL94V -0
最高使用海拔高度 / Maximum altitude		2000m
		Derating should be considered when the altitude is between 2000m -5000m. (For each increase of 1000m, voltage and current will be reduced by 10%)
预期寿命 / Life expectancy		100000h (U_N ; $\Theta_{\text{hotspot}} \leq 55^\circ\text{C}$)
引用标准 / Reference standard		IEC61071 ; IEC60831

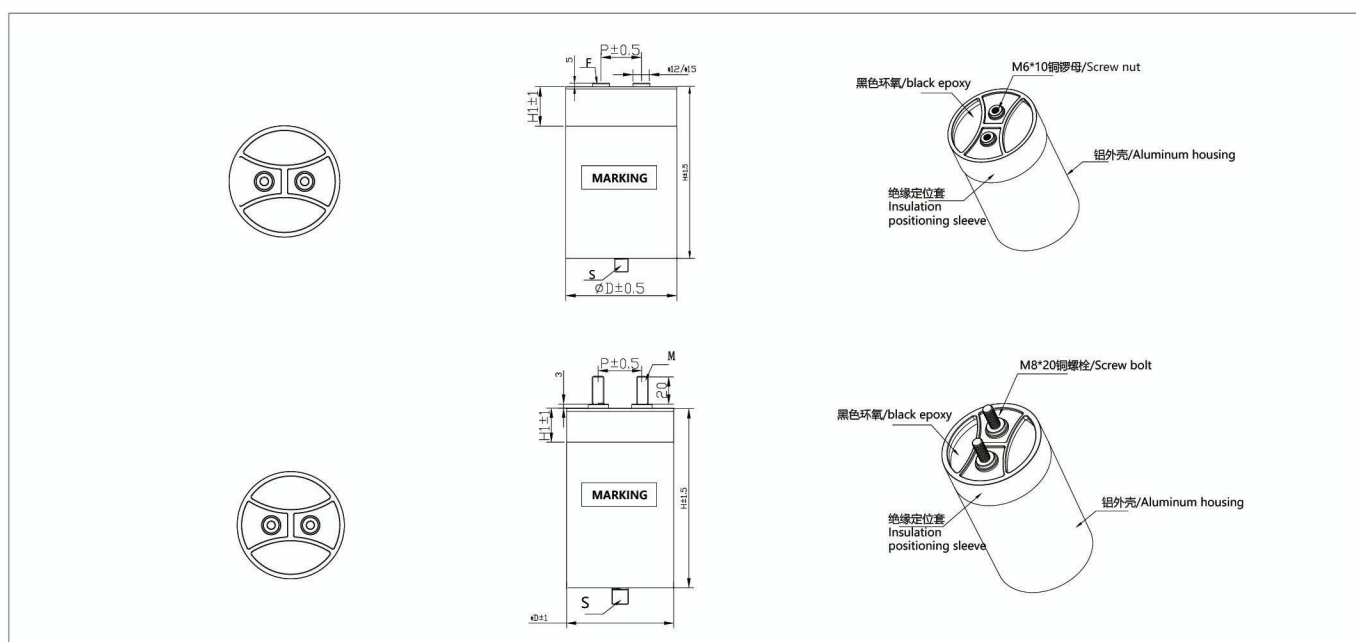


AC - filter 金属化薄膜电容器 AKMJ - MC series Metalized film capacitor

单相交流电容外形图 The contour map

典型尺寸

ØD(mm)	P(mm)	H1(mm)	S	F	M
76	32	20	M12 x 16	M6 x 10	M8 x 20
86	32	20	M12 x 16	M6 x 10	M8 x 20
96	45	20	M12 x 16	M6 x 10	M8 x 20
116	50	30	M12 x 16	M6 x 10	M8 x 20
136	50	30	M16 x 25	M6 x 10	M8 x 20



产品编码说明 Part number system

Model				Capacitance		UN(AC)				Cap. tol	diameter	Height			Lead	Bottom mount	Shell Oxidization	Internal feature code		Structure
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
A	M	C	3	0	7	0	3	3	0	J	E	1	3	0	*	*	*	*	*	
1	~	3	位:	型号代码/Model																
4	~	6	位:	标称容量/Nominal Capacity e.g. 307= 30×10 ⁷ pF= 300μF																
7	~	10	位:	额定电压 (交流) /UN(AC) e.g. 0330=330V.AC																
		11	位:	容量偏差等级/Capacitance Tolerance ±5% (J) ; ±10% (K)																
		12	位:	外壳直径/Shell diameter A=φ55mm B=φ65mm C=φ76mm D=φ86mm E=φ96mm F=φ116mm G=φ136mm																
13	~	15	位:	外壳高度/Shell height e.g. 130=130mm																
		16	位:	引出形式/Lead M: M8x20螺栓引出/Screw bolt F: M6x10螺母引出/Screw nut																
		17	位:	底部安装形式/Bottom mounted type S: 螺杆固定/Screw fixed T: 平底/Flat base																
		18	位:	外壳表面处理方式/Shell surface treatment 0: 无阳极氧化处理/Anode-free gasification treatment 1: 银色阳极氧化处理/Silver anodized finish																
19	~	20	位:	内部特征码/Internal feature code																
		21	位:	结构特征码/Structure D: 三相三角形接法 (此时容量为3×××) / Three-phase delta connection (The capacity is now 3×××) 当为单相引出时, 此编码不标识 (即单相只有20位编码) When it is single-phase output, this code is not identified (that is, single-phase only has 20 bits of code)																

规格表 Specification table

C _N (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I _p (kA)	I _s (kA)	I _{rms} 50°C (A)	ESR @1kHz (mΩ)	R _{th} (K/W)	P (mm)	Weight (kg)	Part number
U _N = 330V.AC U _{rms} 250V.AC U _s = 1200V												
80	76	80	40	80	6.4	19.2	30	4	4.2	32	0.5	AMC8060330*C080****
120	86	80	40	70	8.4	25.2	40	2.8	3.3	32	0.7	AMC1270330*D080****
150	96	80	45	70	10.5	31.5	50	3.5	1.7	45	0.75	AMC1570330*E080****
170	76	130	50	60	10.2	30.6	60	3.2	1.3	32	0.75	AMC1770330*C130****
230	86	130	50	60	13.8	41.4	70	2.4	1.3	32	1.1	AMC2370330*D130****
300	96	130	50	50	15.0	45.0	75	2.8	1.0	45	1.2	AMC3070330*E130****
420	116	130	60	50	21.0	63.0	80	1.9	1.2	50	1.6	AMC4270330*F130****
U _N =450V.AC U _{rms} 330V.AC U _s = 1520V												
50	76	80	40	90	4.5	13.5	30	4	4.2	32	0.5	AMC5060450*C080****
65	86	80	50	80	5.2	15.6	40	2.8	3.3	32	0.7	AMC6560450*D080****



AC - filter 金属化薄膜电容器 AKMJ - MC series

Metalized film capacitor

规格表 Specification table

续上表

C _N (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I _p (kA)	I _s (kA)	I _{rms} 50°C (A)	ESR @1kHz (mΩ)	R _{th} (K/W)	P (mm)	Weight (kg)	Part number
U _N = 450V.AC U _{rms} 330V.AC U _s = 1520V												
80	96	80	45	80	6.4	19.2	50	3.5	1.7	45	0.75	AMC8060450*E080*****
100	76	130	50	70	7.0	21.0	60	3.2	1.3	32	0.75	AMC1070450*C130*****
130	86	130	45	60	7.8	23.4	70	2.4	1.3	32	1.1	AMC1370450*D130*****
160	96	130	50	50	8.0	24.0	75	2.8	1.0	45	1.2	AMC1670450*E130*****
250	116	130	60	50	12.5	37.5	80	1.9	1.2	50	1.6	AMC2570450*F130*****
U _N = 690V.AC U _{rms} 500V.AC U _s = 2100V												
40	76	130	50	100	4.0	12.0	30	2.8	6.0	32	0.75	AMC4060690*C130*****
50	76	150	45	90	4.5	13.5	35	2.4	5.1	32	0.85	AMC5060690*C150*****
60	86	130	45	80	4.8	14.4	40	2.2	4.3	32	1.1	AMC6060690*D130*****
65	86	150	50	80	5.2	15.6	45	1.8	4.1	32	1.2	AMC6560690*D150*****
75	96	130	50	80	6.0	18.0	50	1.5	4.0	45	1.2	AMC7560690*E130*****
80	96	150	55	75	6.0	18.0	60	1.2	3.5	45	1.3	AMC8060690*E150*****
110	116	130	60	70	7.7	23.1	65	0.8	4.4	50	1.6	AMC1170690*F130*****
120	116	150	65	50	6.0	18.0	75	0.6	4.4	50	1.8	AMC1270690*F150*****
U _N = 850V.AC U _{rms} 600V.AC U _s = 2850V												
25	76	130	50	110	2.8	8.3	35	1.5	8.2	32	0.75	AMC2560850*C130*****
30	76	150	60	100	3.0	9.0	40	1.2	7.8	32	0.85	AMC3060850*C150*****
32	86	130	45	100	3.2	9.6	50	1.15	5.2	32	1.1	AMC3260850*D130*****
45	86	150	50	90	4.1	12.2	50	1.05	5.7	32	1.2	AMC4560850*D150*****
40	96	130	50	90	3.6	10.8	50	1	6.0	45	1.2	AMC4060850*E130*****
60	96	150	60	85	5.1	15.3	60	0.9	4.6	45	1.3	AMC6060850*E150*****
60	116	130	60	80	4.8	14.4	65	0.85	4.2	50	1.6	AMC6060850*F130*****
90	116	150	65	75	6.8	20.3	75	0.8	3.3	50	1.8	AMC9060850*F150*****



AC - filter 金属化薄膜电容器 AKMJ - MC series Metalized film capacitor (Single phase)

铜螺母 / 螺杆引出, 塑料定位盖

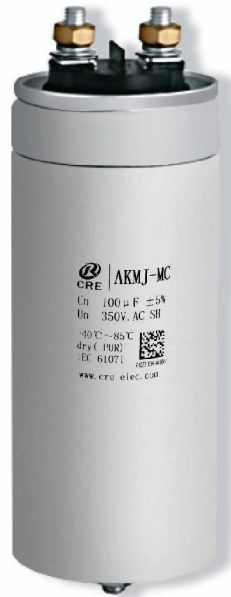
绝缘, 安装简单方便

Copper nut / screw leads, insulated
plastic cover positioning, easy
installation

铝圆外壳封装, 油式/干式树脂灌注

Aluminum round housing package,

Oil type/dry type resin infusion



耐压高, 具有自愈性

Resistance to high voltage, with
self-healing

高纹波电流, 高dv/dt承受能力

High ripple current high dv/dt
withstand capability

容量大, 体积小

Large capacity, small size

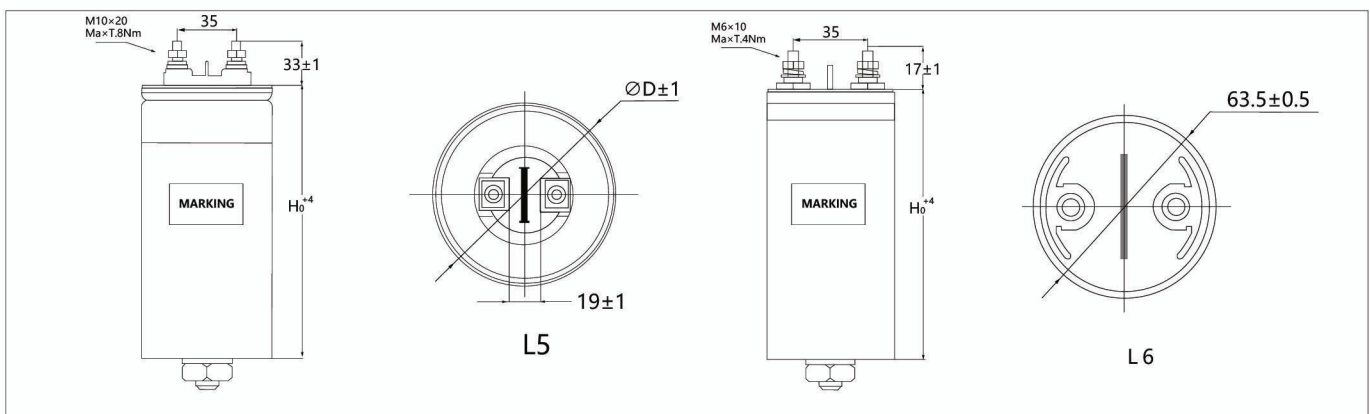
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Application

- Widely used in power electronic equipment used for the AC filter.
- In the high-power UPS, switching power supply, inverter and other equipment for the AC filter, harmonics and improve power factor control.

典型线路图 Typical circuit diagram



AC - filter 金属化薄膜电容器 AKMJ - MC series Metalized film capacitor (Single phase)

性能参数 Technical data

工作温度范围 / Operating temperature range	Max.Operating temperature,Top,max : + 85°C Upper category temperature : + 70°C Lower category temperature re:- 40°C
容量范围(C _N) /Capacitance range	20μF - 200μF
额定电压(U _N) / Rated voltage	200V.AC~1000V.AC
容量偏差 / Cap.tol	±5% (J) ; ±10% (K)
耐电压 / Withstand voltage	vt - t 1.5U _{rms} / 10s vt - c 3000V.AC / 2S,50/60Hz
过电压 / Over voltage	1.1U _{rms} (30% of on – load – dur.) 1.15U _{rms} (30min / day) 1.2U _{rms} (5min / day) 1.3U _{rms} (1min / day)
损耗角正切 / Dissipation factor	tgδ≤0.002 f = 100Hz
自感/ Self inductance	< 70 nH per mm of lead spacing
绝缘电阻 / Insulation resistance	Rs×C≥ 10000s (at20°C 100V.DC)
耐脉冲电流冲击 / Withstand strike current	具体见规格表/See the specification sheet
有效电流 / I _{rms}	具体见规格表/See the specification sheet
阻燃性 / Flame retardation	UL94V -0
寿命预期/ Life time expectancy	Useful life time: > 100000h at U _{NDC} and 70°C FIT: < 10×10 ⁻⁹ /h(10 per 10 ⁹ component h) at 0.5×U _{NDC} ,40°C
电解质/ Dielectric	Metallized polypropylene
结构/ Construction	Filling with inert gas/ silicone oil, Non-inductive, over-pressure
外壳/ Case	Aluminum case
引用标准/ Reference standard	IEC61071,GB17702,UL810

规格表 Specification table

C _N (μF)	φD (mm)	H (mm)	I _{max} (A)	I _p (A)	I _s (A)	ESR (mΩ)	R _{th} (K/W)	P (mm)
Urms=300V.AC,U _N =420V.AC								
150	76	175	29	1270	3810	2.83	5.21	35
200	76	235	28	1300	3900	2.2	6.63	35
Urms=330V.AC,U _N =460V.AC								
80	76	105	20	890	2670	2.45	7.38	35
100	76	105	26	980	2940	2.68	6.52	35
200	86	175	33	1750	5250	1.5	5	35
Urms=400V.AC,U _N =560V.AC								
50	76	110	29	785	2355	3.5	9.53	35
100	86	150	41	2648	7944	2.82	6.26	35
200	86	240	49	3467	10401	2.53	4.89	35
350	116	210	68	3200	9600	1	4.2	35
Urms=480V.AC,U _N =680V.AC								
70	76	145	50	4000	12000	2	6.23	35
100	96	125	80	3500	10500	2	3.9	35
160	86	200	36	3000	9000	1.5	4.8	35
250	96	240	55	2700	8100	1.21	4.25	35
300	86	285	78	2500	7500	1.2	3.85	35



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规格表 Specification table

C_N (μF)	ϕD (mm)	H (mm)	I_{max} (A)	I_p (A)	I_s (A)	ESR (m Ω)	R_{th} (K/W)	P (mm)
Urms=500V.AC, $U_N=700V.AC$								
33	76	115	29	752	2256	3.86	9.05	35
60	76	150	33	953	2859	3.72	7.23	35
100	76	200	37	1047	3141	3.05	6.78	35
133	86	200	40	1392	4176	2.87	6.41	35
200	96	220	45	3800	11400	1.25	3.89	35
250	96	240	50	4000	12000	1.15	3.56	35
Urms=550V.AC, $U_N=780V.AC$								
22	63.5	90	24	500	1500	4.01	12.4	35
50	63.5	140	34	980	2940	3.58	7.1	35
100	76	200	50	3500	10500	1.6	6.84	35
133	86	200	55	4000	12000	1.5	6.84	35
Urms=600V.AC, $U_N=850V.AC$								
150	96	240	52	3000	9000	2.1	3.87	35
200	116	240	55	3200	9600	1.89	3.12	35
Urms=640V.AC, $U_N=900V.AC$								
15	63.5	90	22	350	1050	5.7	10.74	35
2	76	130	29	680	2040	4.28	7.93	35
33	76	130	33	800	2400	3.56	7.39	35
68	86	240	45	1496	4488	2.56	5.61	35
Urms=850V.AC, $U_N=1200V.AC$								
50	96	240	62	2700	8100	1	4.05	35
Urms=1000V.AC, $U_N=1400V.AC$								
30	86	175	38	650	1950	3.68	5.44	35
Urms=1400V.AC, $U_N=1900V.AC$								
15	116	150	35	740	2220	2.5	5.21	35



AC - filter 金属化薄膜电容器 AKMJ - MC series Metalized film capacitor (Three phase)

铜螺母 / 螺杆引出, 塑料定位盖

绝缘, 安装简单方便

Copper nut / screw leads, insulated
plastic cover positioning, easy
installation

耐压高, 具有自愈性

Resistance to high voltage, with
self-healing

高纹波电流, 高dv/dt承受能力

High ripple current, high dv/dt
withstand capability

铝圆外壳封装, 油式/干式树脂灌注

Aluminum round housing package,
Oil type/dry type resin infusion

容量大, 体积小

Large capacity, small size



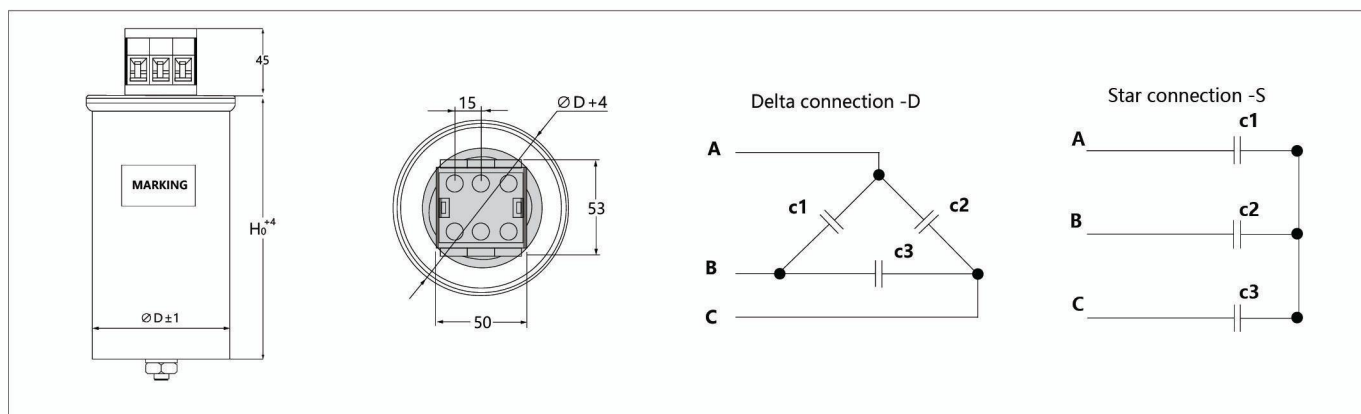
应用

- 广泛应用于电力电子设备中作交流滤波用。
- 在大功率UPS, 开关电源, 变频器等设备中作交流滤波, 治理谐波及提高功率因数。

Application

- Widely used in power electronic equipment used for the AC filter.
- In the high-power UPS, switching power supply, inverter and other equipment for the AC filter, harmonics and improve power factor control.

典型线路图 Typical circuit diagram



性能参数 Technical data

工作温度范围 / Operating temperature range	Max.Operating temperature,Top,max : + 85°C Upper category temperature : + 70°C Lower category temperature re:- 40°C
容量范围(C _N) /Capacitance range	3*17~3*200μF
额定电压(U _N) / Rated voltage	400V.AC~850V.AC
容量偏差 / Cap.tol	±5% (J) ; ±10% (K)
耐电压 / Withstand voltage	vt - t 1.25U _N (AC) / 10s or 1.75U _N (DC) / 10s vt - c 3000V.AC / 2s, 50/60Hz
过电压 / Over voltage	1.1Urms (30% of on – load – dur.) 1.15Urms (30min / day) 1.2Urms (5min / day) 1.3Urms (1min / day)
损耗角正切 / Dissipation factor	tgδ≤0.002 f = 100Hz
自感/ Self inductance	< 70 nH per mm of lead spacing
绝缘电阻 / Insulation resistance	Rs×C≥ 10000s (at20°C 100V.DC)
耐脉冲电流冲击 / Withstand strike current	具体见规格表/See the specification sheet
有效电流 / Irms	具体见规格表/See the specification sheet
阻燃性 / Flame retardation	UL94V -0
寿命预期/ Life time expectancy	Useful life time: > 100000h at U _{ND} C and 70°C FIT: < 10×10 ⁻⁹ /h(10 per 10 ⁹ component h) at 0.5×U _{ND} C,40°C
电解质/ Dielectric	Metallized polypropylene
结构/ Construction	Filling with inert gas/ silicone oil, Non-inductive, over-pressure
外壳/ Case	Aluminum case
引用标准/ Reference standard	IEC61071,UL810

规格表 Specification table

C _N (μF)	φD (mm)	H (mm)	I _{max} (A)	I _p (A)	I _s (A)	ESR (mΩ)	R _{th} (K/W)
Urms=400V.AC							
3*17	65	150	20	450	1350	3*1.25	6.89
3*30	65	175	25	890	2670	3*1.39	6.25
3*50	76	205	33	1167	3501	3*1.35	4.85
3*66	76	240	40	1336	4007	3*1.45	3.79
3*166.7	116	240	54	1458	4374	3*0.69	3.1
3*200	136	240	58	2657	7971	3*0.45	2.86
Urms=450V.AC							
3*50	86	205	30	802	2406	3*1.35	4.36
3*80	86	285	46	1467	4401	3*1.89	3.69
3*100	116	210	56	2040	6120	3*1.5	3.8
3*135	116	240	58	2680	8040	3*1.6	3.1
3*150	136	205	67	3060	9180	3*2.5	3.2
3*200	136	240	60	3730	11190	3*2	3.46



AC - filter 金属化薄膜电容器 AKMJ - MC series Metalized film capacitor (Three phase)

规格表 Specification table

C _N (μF)	φD (mm)	H (mm)	I _{max} (A)	I _p (A)	I _s (A)	ESR (mΩ)	R _{th} (K/W)
Urms=530V.AC							
3*50	86	240	32	916	2740	3*1.75	3.64
3*66	96	240	44	1547	4641	3*1.36	3.32
3*77	106	240	48	1685	5055	3*1.16	3.21
3*100	116	240	65	2000	6000	3*1.87	4.2
Urms=690V.AC							
3*25	86	240	29	697	2091	3*2.22	3.54
3*33.4	96	240	36	837	2511	3*1.81	3.21
3*55.7	116	240	44	1395	4185	3*1.24	3.04
3*75	136	240	53	2100	6300	3*1.31	2.87
Urms=850V.AC							
3*25	96	240	30	679	2037	3*1.95	3.25
3*31	106	240	36	906	2718	3*1.57	2.98
3*55.7	136	240	49	1721	5163	3*0.9	2.56
Urms=1200V.AC							
3*12	116	245	56	1300	3900	3*3.5	3.6
3*20	136	245	56	3300	9900	3*4	2.29



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.

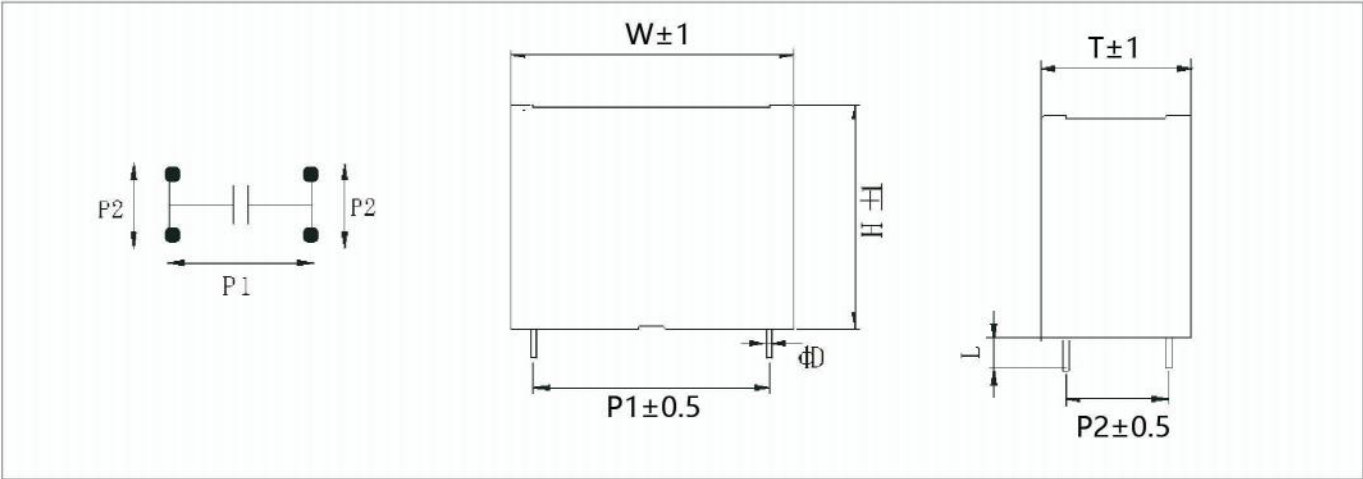
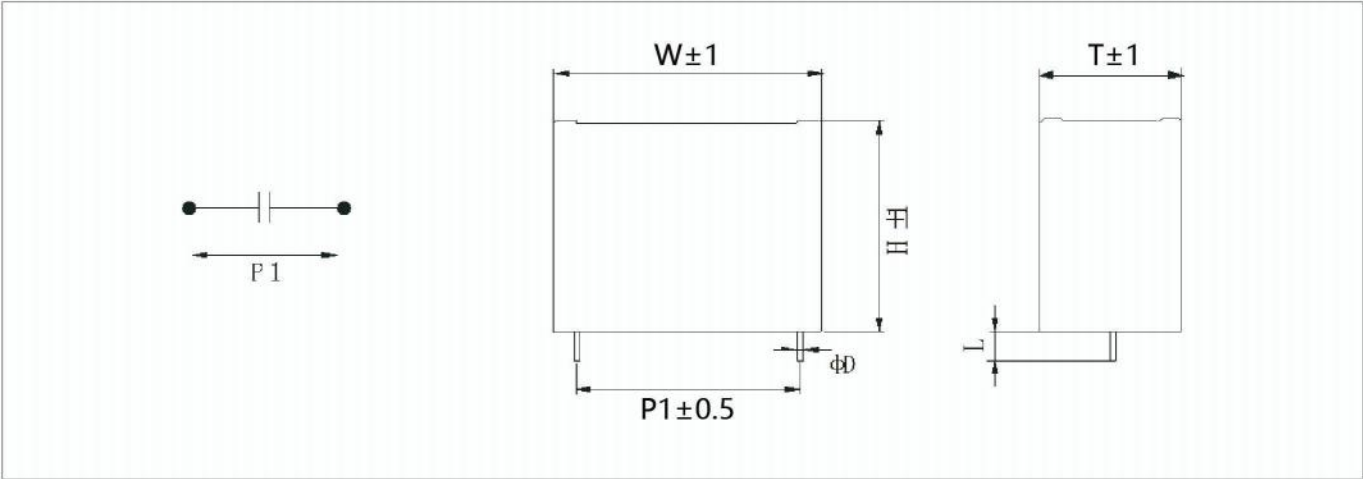
性能参数 Technical data

工作温度范围 / Operating temperature range	-40℃~ +105℃ (+85℃ to +105℃: 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			
耐电压/ 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℃ 100V.DC)			
阻燃性/ Flame retardation	UL94V-0			
引用标准/ Reference standard	IEC61071; GB/T 17702			



01

外形图 The contour map



产品编码说明 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

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=±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

AC - filter 金属化薄膜电容器 AKMJ - PS series

Metalized film capacitor

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
$U_{\text{rms}} = 250\text{V.AC}$, $U_{\text{N}} = 350\text{V.AC}$, $U_{\text{NDC}} = 475\text{V.DC}$													
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***
$U_{\text{rms}} = 300\text{V.AC}$, $U_{\text{N}} = 425\text{V.AC}$, $U_{\text{NDC}} = 560\text{V.DC}$													
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***



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

规格表 Specification table

续上表

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

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
$U_{rms} = 350\text{V.AC}$, $U_N = 480\text{V.AC}$, $U_{NDC} = 600\text{V.DC}$													
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***

