



ALUMINUM ELECTROLYTIC CAPACITORS

SKL

Low Impedance & Long Life (+105℃ 低阻抗&长寿命)

Series

■ Features :105℃ 5000~10000 hours,High ripple current ,Low impedance ,Long Life.

特点:低阻抗，长寿命，105℃ 5000~10000小时。

■ Recommended Applications :Apply to the power adapter, switching power supply,

LED power, charger power supply high frequency electronic circuit

适用于适配器电源,开关电源,LED电源，充电器电源高频电子线路中。

■Corresponding product to RoHS (2011/65/EU)

符合RoHS要求的相应产品(2011/65/EU)

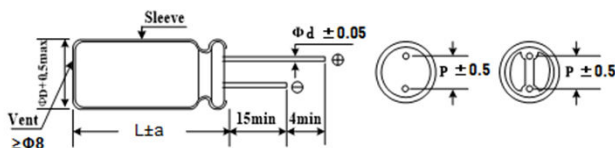


■ Specifications(技术性能)

Item 项目	Characteristics 性能											
Operating Temperature Range 温度范围	-40 ~ +105℃				-40 ~ +105℃				-25 ~ +105℃			
Rated Voltage Range 电压范围	6.3 ~ 100VDC				160 ~250VDC				350 ~450VDC			
Rated Capacitance Range 容量范围	1 ~ 10000μF											
Capacitance Tolerance 容量偏差	± 20 % at 120Hz , 20℃											
Leakage Current (MAX) (20℃) 泄漏电流	I=0.01CV or 3(μA) whichever is greater.				I=0.03CV+10(μA) or 3(mA) , whichever is smaller.							
	After rated voltage applied for 2 min 两者取较大值，2分钟测试				After rated voltage applied for 2 min 两者取较小值，2分钟测试							
Dissipation Factor 损耗角 (tanδ) (120Hz , 20℃)	WV(V)	6.3	10	16	25	35	50	63	100	160~250	350~450	
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20	
Capacitance>1000μF,add 0.02per another1000μF.容量大于1000uF每增加1000uF损耗角增加0.02.												
Low Temperature Stability Impedance Ratio (MAX) 低温阻抗比	WV Z(120Hz)	6.3	10	16	25	35	50	63	100	160~250	350~400	450~
	Z-25℃ / Z+20℃	4	3	3	3	3	3	3	2	3	5	6
	Z-40℃ / Z+20℃	8	6	4	4	3	3	3	3	4	-	-
High Temperature Load Life 高温负载耐久性	After applying rated voltage for 5000~10000 hours at 105℃. the capacitors shall meet the following requirements. 在105℃环境下连续施加额定电压5000~10000小时后，符合以下要求.											
	Capacitance Change 容量	Within ± 25 % of initial value 在初始值的±25%										
	Dissipation Factor 损耗角	Not more than 200% of the specified value 不超过标准值的200%										
	Leakage Current 泄漏电流	Initial specified value or less 标准值内										
Life Time: 试验时间												
	ΦD(mm)	5~6.3			8 ~10			13higher				
	Life(H)	5000			8000			10000				
High Temperature Shelf Life 高温放置耐久性	After leaving capacitors under no load at 105℃ for 1000 hours.the capacitors shall meet the same requirement as Endurance. 在105℃环境下不加负载放置1000小时后电性能同耐久性要求.											

■ Diagram of Dimensions

外形尺寸



Unit: mm

ΦD	5	6.3	8	10	13	16	18	22
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8	1.0
a	(L<20)1.5 (L≥20)2.0							

■ Multiplier for Ripple Current

(1) Frequency Coefficient (频率系数)

Cap(μf)	120	1k	10k	100k
1~5.6	0.30	0.40	0.90	1.00
6.8~180	0.40	0.75	0.90	1.00
220~560	0.50	0.85	0.94	1.00
680~1800	0.60	0.87	0.95	1.00
2200~3900	0.75	0.90	0.95	1.00
4700~10000	0.85	0.95	0.98	1.00

(2) Temperature Coefficient(温度系数)

Temperature (℃)	-45	60	70	85	105
Factor	2.33	2.17	2.00	1.75	1.00



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■ DIMENSIONS Rated Capacitors, Voltage(Surge),Case Size,Imp,Ripple Current. 容量、电压 (浪涌电压)、尺寸、阻抗、纹波电流.

Capacitance (μ F)	Rated (Surge) Voltage (V)											
	6.3 (8)			10 (13)			16 (20)			25 (32)		
	Size	Imp	Ripple	Size	Imp	Ripple	Size	Imp	Ripple	Size	Imp	Ripple
10										5x11	3.000	80
47							5x11	0.760	158	5x11	0.650	172
68							5x11	0.700	160	6.3x12	0.450	245
100	5x11	0.754	156	5x11	0.640	175	6.3x12	0.350	270	6.3x12	0.280	310
120							6.3x12	0.320	290	8x12	0.260	378
150	5x11	0.650	180	6.3x12	0.320	300						
220	6.3x12	0.286	253	6.3x12	0.280	328	6.3x12	0.220	350	8x12	0.165	485
				8x12	0.260	380	8x12	0.200	410			
330	6.3x12	0.190	376	8x12	0.170	475	8x12	0.150	490	8x16	0.113	632
	8x12	0.170	454							10x13	0.104	680
470	8x12	0.130	530	8x12	0.150	530	8x16	0.115	630	8x20	0.090	878
							10x13	0.115	648	10x16	0.078	880
680				8x16	0.104	660	8x20	0.090	782	10x20	0.065	1085
				10x13	0.104	684	10x16	0.090	810			
820	8x16	0.113	632	10x16	0.087	870	10x20	0.065	1045	10x25	0.055	1310
	10x13	0.104	684				13x16	0.065	1081	13x20	0.055	1378
1000	10x13	0.095	720	8x20	0.080	900	10x20	0.060	1124	13x20	0.048	1470
				10x16	0.078	924	10x25	0.058	1245	13x25	0.047	1620
1200	8x20	0.084	900	10x20	0.064	1130	10x25	0.055	1314			
	10x16	0.078	924				13x20	0.055	1378			
1500	10x20	0.060	1190	10x20	0.058	1210	13x25	0.048	1550			
	13x16	0.060	1250	10x25	0.056	1340	16x20	0.048	1585			
2200	10x25	0.048	1570	10x30	0.046	1620	13x25	0.044	1698			
	13x20	0.048	1541	13x20	0.046	1580	16x20	0.044	1736			
3300				13x25	0.036	1890	18x20	0.036	2080	16x30	0.030	2470
				16x20	0.036	1941				18x25	0.030	2440
4700				16x25	0.039	2041	16x30	0.030	2510	18x35	0.026	3200
							18x25	0.030	2486			
10000				18x35	0.028	2980	18x40	0.026	3380			

☆ Size: Φ Dx L (mm) ☆ Ripple Current: (mA/rms), 105℃,100KHz ☆ Impedance (Ω),20℃,100KHz



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Capacitance (μF)	Rated (Surge) Voltage (V)											
	35 (44)			50 (63)			63 (79)			100 (125)		
	Size	Imp	Ripple	Size	Imp	Ripple	Size	Imp	Ripple	Size	Imp	Ripple
1				5x11	5.00	60						
2.2				5x11	3.50	74						
3.3				5x11	2.80	83						
4.7				5x11	2.40	92						
10				6.3x12	2.00	118						
22	6.3x12	0.650	192	6.3x12	1.00	170	6.3x12	0.800	190			
47	5x11	0.620	210	6.3x12	0.800	200	6.3x12	0.690	210			
	6.3x12	0.420	260	6.3x12	0.540	245	8x12	0.500	270	10x13	0.350	380
68	6.3x12	0.250	350	8x12	0.400	317	8x12	0.340	330	10x16	0.240	520
82	8x12	0.170	484	8x12	0.300	360	10x13	0.250	460	10x20	0.200	660
100	8x12	0.160	502	10x13	0.240	480	8x16	0.200	504	10x20	0.170	710
							10x13	0.200	520			
150	8x12	0.140	569	10x16	0.180	625	10x20	0.160	710	13x20	0.100	1030
220	8x16	0.102	665	10x20	0.120	840	13x20	0.090	1010	13x25	0.083	1240
	10x13	0.102	690	13x17	0.120	910				16x20	0.083	1268
330	10x16	0.085	900	13x20	0.090	1089	13x20	0.074	1190	16x25	0.065	1580
470	10x20	0.078	970	13x25	0.078	1283	13x25	0.067	1390	18x30	0.057	1970
680	13x20	0.060	1405	13x30	0.068	1560	13x25	0.075	1395	18x35	0.050	2200
				16x20	0.065	1468	16x25	0.058	1650			
820	13x25	0.048	1640	16x25	0.058	1680	16x30	0.052	1900			
							18x25	0.052	1880			
1000	13x25	0.043	1790	16x25	0.049	1850	16x30	0.044	2148			
	16x20	0.043	1830									
2200	18x25	0.035	2360	18x35	0.035	2730						
3300	18x35	0.028	3120									

☆ Size: ΦDx L (mm) ☆ Ripple Current: (mA/rms), 105℃,100KHz ☆Impedance (Ω),20℃,100KHz



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Capacitance (μ F)	Rated (Surge) Voltage (V)									
	160 (200)		200 (250)		250 (300)		400 (450)		450 (500)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7							10x13	49	10x13	60
									10x16	65
5.6							10x13	56	10x20	72
6.8							10x13	60	10x16	75
							10x16	69	10x20	78
10	8x12	85	8x12	95	10x13	110	10x16	84	10x20	120
							10x20	90		
15							13x20	123	13x20	220
22	8x16	150	10x20	220	10x20	260	13x25	140	13x25	260
	10x16	180					16x20	150	16x20	265
33	10x20	232	10x20	260	13x20	294	13x30	244	16x30	340
							16x25	260	18x25	335
47	10x20	300	13x20	320	13x25	380	16x25	336	18x30	420
	13x17	300			16x20	369	18x25	341		
68	13x20	380	13x25	380	16x20	400	18x30	430	18x30	460
			16x20	370						
82	13x25	425	16x20	450	16x25	490	18x35	550	18x35	520
					18x20	480	18x40	600	18x40	560
100	13x25	485	16x25	560	16x30	620	18x40	640	18x40	600
	16x20	512	18x20	545	18x25	600				
150	16x25	600	16x25	640	18x30	720				
	18x20	580								
220	16x30	650								
	18x30	660								
330	18x35	780								

☆ Size: Φ Dx L (mm) ☆ Ripple Current: (mA/rms), 105℃,120Hz