

ALUMINUM ELECTROLYTIC CAPACITORS

SK General purpose Series

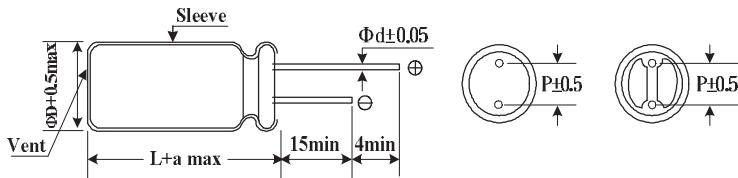


- Features: 85°C 2000 hours
- Recommended Applications: For general purpose , decoupling , by pass and filtering circuit in entertainment electronics
- Corresponding product to RoHS

Specifications

Item	Characteristics	
Operating Temperature Range	-40~+85°C	-25~+85°C
Rated Voltage Range	6.3 ~ 100VDC	160 ~ 500VDC
Rated Capacitance Range	1 ~ 22000µF	1 ~ 470µF
Capacitance Tolerance	± 20 % at 120Hz , 20°C	
Leakage Current (MAX) (20°C)	I=0.01CV or 3µA whichever is greater.	I=0.03CV+10(µA)
	(After rated voltage applied for 2 minutes)	
Dissipation Factor (MAX) (tanδ) (120Hz ,20°C)	WV	6.3 10 16 25 35 50 63 100 160~250 350~500
	tanδ	0.24 0.20 0.16 0.14 0.12 0.10 0.10 0.10 0.20 0.24
	When nominal capacitance is over 1000µF , tanδ shall be added 0.02 to the listed value with increase of every 1000µF .	
Low Temperature Stability Impedance Ratio (MAX)	Z(120Hz)	WV 6.3 10 16 25 35~100 160~250 315~350 400~500
	Z-25°C / Z+20°C	8 6 5 3 3 7 10 15
	Z-40°C / Z+20°C	10 8 6 4 3 — — —
Endurance	After applying rated voltage for 2000 hours at 85°C the capacitors shall meet the following requirements.	
	Capacitance Change	Within ± 20 % of initial value
	Dissipation Factor	Not more than 200% of the specified value
	Leakage Current	initial specified value or less
Shelf Life	After placed at 85°C without voltage applied for 1000 hours, the capacitors shall meet the same requirement as Endurance.	

Diagram of Dimensions



ψD	5	6.3	8	10	13	16	18	22
P	2.0	2.5	3.5	5.0		7.5		10.0
ψd	0.5	0.5	0.6	0.6		0.8		0.8
a	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0

Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	120	300	1K	10K
6.3 ~ 100V Below 68µF	1.00	1.20	1.30	1.50
6.3 ~ 100V 100 ~ 680µF	1.00	1.10	1.15	1.20
6.3 ~ 100V 1000 ~ 22000µF	1.00	1.05	1.10	1.15
160 ~ 450V Below 220µF	1.00	1.25	1.40	1.40
160 ~ 450V 220µF Above	1.00	1.10	1.13	1.13
500V	1.00	1.05	1.10	1.10

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■ Dimensions, Rated Ripple Current

Capacitance (μF)	Rated (Surge) Voltage													
	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (79)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1.0											5x11	10	5x11	10
2.2											5x11	23	5x11	29
3.3											5x11	35	5x11	40
4.7			5x11	20	5x11	25	5x11	30	5x11	35	5x11	40	5x11	45
6.8											5x11	50		
10			5x11	35	5x11	40	5x11	50	5x11	60	5x11	65	5x11	70
22	5x11	35	5x11	55	5x11	75	5x11	90	5x11	95	5x11	100	5x11	95
													6.3x11	115
33	5x11	55	5x11	80	5x11	110	5x11	115	5x11	120	5x11	105	6.3x11	130
47	5x11	75	5x11	95	5x11	130	5x11	135	5x11	120	6.3x11	140	6.3x11	190
68					5x11	150	5x11	145						
100	5x11	130	5x11	180	5x11	165	6.3x11	160	6.3x11	185	8x11	230	10x12.5	300
150					6.3x11	205								
220	5x11	200	6.3x11	250	6.3x11	260	8x11	290	8x11	290	10x12.5	380	10x15	410
	6.3x11	240											10x20	490
330	6.3x11	260	6.3x11	265	6.3x11	290	8x11	315	10x12.5	420	10x15	490	10x20	540
					8x11	360								
470	6.3x11	330	6.3x11	320	8x11	400	8x15	420	10x15	430	10x20	610	13x20	755
							10x12.5	460						
680	8x11	410	8x11	410	10x12.5	510	10x15	550	10x20	550			13x25	965
1000	8x11	460	10x12.5	580	10x15	630	10x20	760	13x20	950	13x25	1100	16x25	1310
	10x12.5	580					13x16	760						
2200	10x20	840	10x20	880	13x20	1100	13x25	1300	16x25	1600	16x36	1850	18x36	2200
											18x32	1850		
3300	10x20	1000	13x20	1250	13x25	1400	16x25	1660	16x36	1970	18x36	2170	22x40	2500
									18x32	2050				
4700	13x20	1300	13x25	1500	16x25	1800	16x32	1950	18x36	2400	22x40	2500		
6800	13x25	1550	16x25	1900	16x32	1980	18x36	2550	22x40	2600				
10000	16x25	1900	16x36	2225	18x36	2700	22x40	2800						
			18x32	2225										
15000	16x36	2500	18x36	2950	22x40	3150	22x40	3200						
22000	18x40	3650	22x40	3700	22x40	3800								

☆ Size: D \times L (mm) ☆ Ripple Current: (mA/rms). 85°C, 120Hz

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■ Dimensions, Rated Ripple Current

Capacitance (μF)	Rated (Surge) Voltage															
	100 (125)		160 (200)		200 (250)		250 (300)		350 (400)		400 (450)		450 (500)		500(550)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1.0	5x11	21	5x11	17	5x11	19	5x11	17	6.3x11	19	6.3x11	16	8x11	19		
			6.3x11	17			6.3x11	19			8x11	19				
2.2	5x11	30	6.3x11	26	6.3x11	22	6.3x11	24	8x11	33	6.3x11	20	10x12.5	33		
							8x11	30			8x11	26			10x12.5	33
3.3	5x11	45	6.3x11	30	6.3x11	30	8x11	30	8x11	33	8x11	35	10x12.5	40	10x15	43
4.7	5x11	50	6.3x11	32	6.3x11	35	8x11	36	10x12.5	39	8x11	38	10x12.5	45		
											10x12.5	42				
6.8	5x11	55			8x11	40	8x11	40			8x15	42	10x15	50	10x20	70
											10x12.5	45				
10	5x11	65	8x11	50	8x11	45	10x12.5	65	10x15	70	10x15	50	10x20	58	13x20	93
	6.3x11	75											13x20	60		
22	6.3x11	105	10x15	110	10x15	120	10x20	130	13x20	130	13x20	100	13x25	98	16x25	105
	8x11	130														
33	8x11	140	10x15	135	10x20	160	13x20	140	13x25	170	13x25	140	16x25	145	16x25	200
			10x20	150												
47	10x12.5	190	10x20	160	10x20	170	13x25	210	16x25	220	16x25	180	16x32	165	18x32	185
					13x20	200							18x25	160		
68	10x15	280	13x20	200	13x25	230					16x32	250	18x32	265	18x36	370
											18x25	220				
100	10x20	400	13x25	250	16x25	330	16x25	250	16x36	320	18x32	320	18x40	330		
									18x32	300						
150	13x20	500	16x25	330			16x32	330			18x40	420	22x35	420		
220	13x25	710	16x32	450	16x32	505	18x36	540								
					18x25	485										
330	13x25	720	18x36	540	16x40	710										
					18x32	685										
470	16x25	1100	18x40	750	18x40	750										
680	16x36	1260														
1000	18x40	1350														
2200																

☆ Size: Dφx L (mm) ☆ Ripple Current: (mA/rms). 85°C, 120Hz