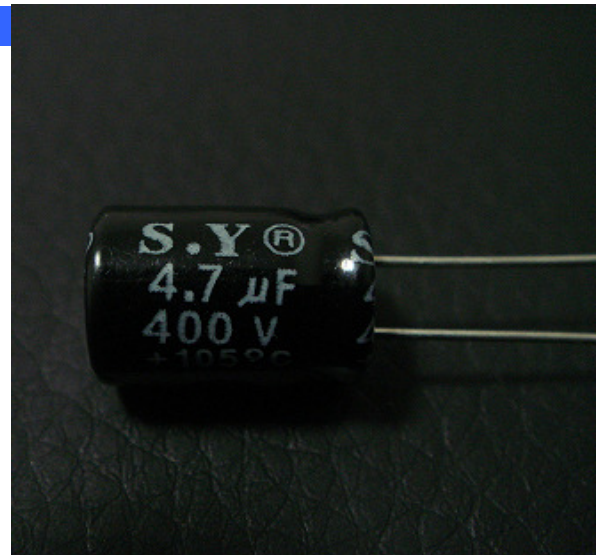


ALUMINUM ELECTROLYTIC CAPACITOR

SK SERIES

耐高溫度品 HIGH TEMPERATURE FOR GENERAL PURPOSE

- * 本系列適合一般高溫度及信賴性較高之消費性產品。
- * 適用於一般民生用電子設備、通訊設備或一般工業產品等等。
- * SK series fit for those consumer products which require to withstand high temperature and high reliability
- * Suitable for consumer electronic equipment and general industrial products,etc.

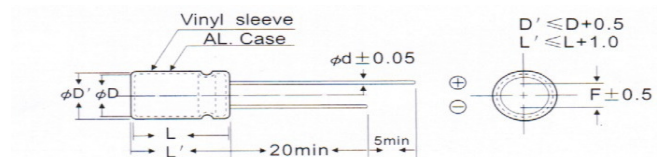


SPECIFICATION

Item	Characteristic														
使用溫度範圍 Operation Temperature Range	-40℃～+105℃									-40℃～+105℃					
額定電壓 Rated Working Voltage	6.3～100V DC									160～400V DC					
靜電容量容許差（120Hz 25℃） Capacitance Tolerance	±20%(M)														
漏洩電流（25℃） Leakage Current	I ≤0.01CV or 3 (u A)									I ≒0.03 CV or 40(u A) max					
	whichever is greater after 3minutes														
	I: Leakage Current (u A) C: Rated Capacitance (u F) V: Working Voltage (V)														
湧浪電壓（25℃） Surge Voltage	W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	S.V.	8	13	20	32	44	63	79	125	200	250	300	400	450	500
散逸因素（120Hz 25℃） Dissipation Factor (tan δ)	Add 0.02 per 1000 u F for more than 1000 u F														
	W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	tan δ	0.24	0.20	0.17	0.15	0.12	0.10	0.10	0.08	0.20	0.20	0.20	0.25	0.25	0.25
低溫特性 Low Temperature Stability	impedance ratio max, at 120Hz														
	Rated Voltage 【V】 -40℃/+25℃		6.3	10		16		25		35～100		160～250		350～450	
			10	8		6		4		3					
高溫負荷特性 High Temperature Loading	After 1000 hours application of W.V. at +105℃ the capacitor shall meet the following limits														
	Capacitance Change		≒ ±25% of initial value for 6.3～16WV												
			≒ ±20% of initial value for 25～250WV												
	Dissipation Factor		≒ 200% of initial specified value												
	Leakage Current		≒ initial specified value												
放置特性 Shelf Life	At 105℃ no voltage applied after 500 hours the capacitor shall meet the following limits														
	Capacitance Change		≒ ±20% of initial value												
	Dissipation Factor		≒ 200% of initial specified value												
	Leakage Current		≒ 200% of initial specified value												

CASE SIZE OF RADIAL TYPE

D	5	6	8	10	13	16	18	22	25	30
F	2.0	2.5	3.5	5.0		7.5		10	12.5	15
d	0.5			0.6		0.8		1.0		



CASE SIZE,E.S.R.& MAX RIPPLE CURRENT

[SKR]

Case Size: D×L (mm)

E.S.R.: Ω 25°C 120Hz

Max ripple current: m A (rms)

(R.C.) 105°C 120Hz

u F	WV	6.3			10			16		
	ITEM	D×L	E.S.R	R.C.	D×L	E.S.R	R.C.	D×L	E.S.R	R.C.
47								5×11	6.00	60
100		5×11	3.98	75	5×11	3.32	80	5×11 6×11	2.82	90 100
220		6×11	1.81	130	6×11	1.51	140	6.3×11 8×12	1.28	150 170
330		6×11	1.21	160	6.3×11 8×12	1.01	170 190	8×12	0.85	210
470		6.3×11 8×11	0.85	180 210	6.3×11 8×12	0.71	220 230	8×12 8×14	0.60	250 270
1000		8×12 8×14	0.40	320 340	8×14 10×17	0.33	370 400	10×17	0.28	490
2200		10×20	0.20	590	10×20 13×21	0.17	610 650	13×21 13×26	0.14	680 700
3300		13×21	0.14	700	13×21 13×26	0.12	740 760	13×21 16×26	0.11	800 890
4700		13×26	0.11	880	13×26 16×32	0.10	900 960	13×26 16×32	0.09	960 1140
6800		16×25	0.09	1020	16×32 16×36	0.08	1100 1210	16×32 18×35	0.07	1200 1300
10000		16×32	0.07	1260	18×35	0.06	1350	22×32	0.06	1530
15000		18×35	0.06	1420	18×42	0.05	1600			

u F	WV	25			35			50		
	ITEM	D×L	E.S.R	R.C.	D×L	E.S.R	R.C.	D×L	E.S.R	R.C.
0.47								5×11	352.74	8
1								5×11	165.79	12
2.2								5×11	75.36	17
3.3								5×11	50.24	21
4.7								5×11	35.27	25
10		5×11	24.87	30	5×11	20.22	35	5×11	16.58	37
22		5×11	11.30	44	5×11	9.45	50	5×11	7.54	55
33		5×11	7.54	55	5×11	6.03	60	6×11	5.02	75
47		5×11 6×11	5.29	60 65	5×11 6×11	4.23	70 80	6×11	3.53	90
100		6×11	2.49	110	6.3×11 8×11	1.99	130 140	8×12 8×14	1.66	130 150
220		8×12 8×14	1.13	150 180	8×14 10×16	0.99	200 220	10×16	0.75	270
330		8×12 8×14	0.75	200 240	10×16	0.60	300	10×21	0.50	370
470		8×14 10×16	0.53	260 320	10×17	0.42	400	10×21 13×21	0.35	410 440
1000		10×17 13×21	0.25	450 530	13×21 13×26	0.20	560 590	13×26 16×26	0.17	650 730
2200		13×21 13×26	0.13	690 810	13×26 18×26	0.11	850 1020	18×35	0.09	1130
3300		13×26 16×32	0.10	980 1070	18×32	0.08	1200	18×42	0.07	1390
4700		16×32 16×36	0.08	1100 1220	18×14 18×42	0.07	1320 1420	25×36	0.05	1700
6800		18×36	0.06	1460	25×36	0.05	1640	25×42	0.04	2200
10000		22×36	0.04	1900	25×42	0.03	2300	30×46	0.03	2900

u F	WV	63			100		
	ITEM	D×L	E.S.R	R.C.	D×L	E.S.R	R.C.
0.47					5×11	282.19	9
1					5×11	132.63	13
2.2					5×11	60.29	19
3.3					5×11	40.19	24
4.7					5×11	28.22	28
10		5×11	16.58	37	6.3×11 8×11	13.26	40 47
22		6×11	7.54	60	8×11	6.03	80
33		6×11	5.02	75	10×13	4.02	110
47		8×11	3.53	100	10×16	2.82	140
100		10×15	1.66	160	13×21	1.33	230
220		10×21	0.75	300	13×25	0.60	380
330		13×21	0.50	370	16×25	0.40	470
470		13×21	0.35	490	16×32	0.28	620
1000		16×26	0.17	810			
2200		18×36	0.08	1220			

CASE SIZE,E.S.R.& MAX RIPPLE CURRENT
[SKR]

Case Size: DxL (mm)

E.S.R.: Ω 25°C 120Hz

Max ripple current: m A (rms)

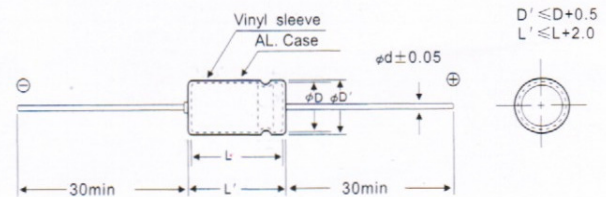
(R.C.) 105°C 120Hz

u F	WV ITEM	160			200			250		
		DxL	E.S.R	R.C.	DxL	E.S.R	R.C.	DxL	E.S.R	R.C.
0.47		6x11	705.47	7	6x11	705.47	8	6x11	705.47	9
1		6x11	331.57	11	6x11	331.57	12	6x11	331.57	13
2.2		6x11	150.72	16	6x11	150.72	17	6x11 8x11	150.72	18 19
3.3		6x11 8x11	100.48	18 20	6x11 8x11	100.48	20 21	8x12 10x13	100.48	24 26
4.7		6x11 8x11	70.55	19 23	8x12 10x13	70.55	25 29	8x12 10x13	70.55	30 31
10		10x16	33.16	39	10x17	33.16	46	10x17	33.16	55
22		10x20	15.07	70	13x21	15.07	85	13x21	15.07	90
33		10x20 13x21	10.05	80 95	13x21	10.05	110	13x21 13x25	10.05	100 110
47		13x21 13x25	7.06	100 120	13x25	7.06	120	13x26 16x26	7.06	130 150
100		16x25	3.32	180	16x26	3.32	200	16x35	3.32	250
220		16x35	1.51	320	18x36	1.51	370	18x32	1.01	420
330		18x42	1.01	420						

u F	WV ITEM	350			400			450		
		DxL	E.S.R	R.C.	DxL	E.S.R	R.C.	DxL	E.S.R	R.C.
0.47		8x11	881.84	8	8x11	881.84	9			
1		8x12 10x13	414.47	10 12	8x12 10x13	414.47	11 13			
2.2		8x12 10x13	188.39	14 18	8x12 10x13	188.39	19 20			
3.3		10x17	125.60	24	8x12 10x17	125.60	22 25	10x10	125.60	29
4.7		8x12 10x17	88.18	29	8x12 10x17	88.18	30 33			
6.8		8x16	60.25	31	8x16 10x13	67.50	34 47			
10		10x20	41.45	50	10x17 10x20	41.45	52 55			
22		13x21 16x25	18.84	75 85	13x21 16x26	18.84	87 90			
33		13x26 16x25	12.56	100 110	16x26 16x33	12.56	120 130			
47		16x25	8.82	150	16x25 16x32	8.82	150			
100		18x36 18x42	4.15	200 230	16x33					

CASE SIZE OF AXIAL TYPE

D	6	8	10	13	16	18
d	0.6					0.8



[SKA]

Case Size: DxL(mm)

u F \ WV	6	10	16	25	35	50	63	100	160	200	250	350	400
0.47						6x13	6x13	6x13	6x13	6x13	6x13	6x16	6x16
1.0						6x13	6x13	6x13	6x13	6x13	6x16	8x16	8x16
2.2						6x13	6x13	6x13	6x16	6x16	8x16	8x21	8x21
3.3						6x13	6x13	6x13	8x16	8x16	8x16	10x22	10x22
4.7						6x13	6x13	6x13	8x16	8x16	10x22	10x27	10x27
10						5x12 6x13	6x13	6x16	10x22	10x22	10x27	13x27	13x27
22					6x13	6x13	6x16	8x16	10x27	13x27	13x27	13x32	16x33
33				6x13	6x16	6x16	6x16	8x21	13x27	13x32	13x32	16x33	16x43
47		6x13	6x13	6x16	6x16	8x16	8x16	8x21	13x32	13x32	13x35	18x43	
100	6x13	6x16	6x16	6x16	8x16	8x16	8x21 10x17	10x27	16x33	16x43	16x43		
220	6x16	6x16	8x16	8x16	8x21	10x22	10x27	13x32	18x43				
330	8x16	8x16	8x16	8x21	10x22	10x27	13x27	13x35					
470	8x16	8x16	8x16	10x22	10x27	13x27	13x27	16x43					
1000	10x22	10x22	10x27	13x27	13x32	13x35	16x33						
2200	13x27	13x27	13x32	13x35	16x33	18x43							
3300	13x27	13x32	13x35	16x33	16x43								
4700	13x32	13x35	16x33	18x43									
6800	16x33	16x33	16x43										
10000	16x43	18x43											
15000	18x43												

Power Sky (H.K.) Limited