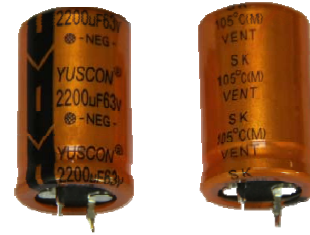


Aluminum Electrolytic Capacitors

YUSCON®

SK Series

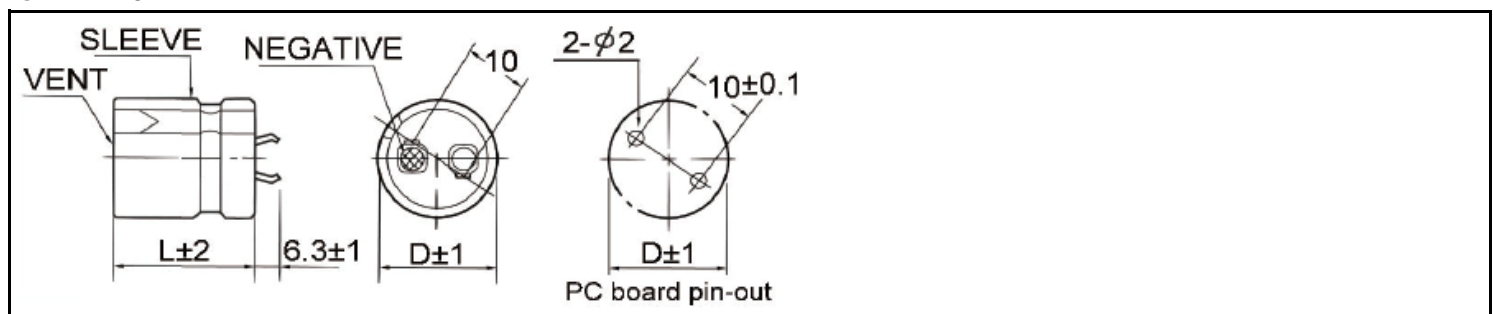
- With temperature range of -40(-25)~+105℃
Standard snap-in terminal series
Applies to the speaker, power supply, UPS, etc
- Rohs compliance.



■ SPECIFICATIONS

Category Temperature Range	16V ~ 100V :-40 ~+105℃										
	160V ~ 450V :-25 ~+105℃										
Nominal Cap. Range	47 ~ 22,000μF										
Capacitance Tolerance	20% ~ + 20 % (20 ℃ , 120Hz)										
Leakage Current	I = 0.02 CV or 3(μ A) whichever is smaller , after 5min										
Dissipation Factor(tan δ) (at 120Hz,20℃)	Rated Voltage(V)	10	16	25	35	50	63	80	100	160-250	400-450
	tan δ (max.)	16	14	12	12	10	10	10	10	8	8
	When nominal capacitance is over 1000uF,tan δshall be added 0.02 to the listed value with increase of every 1000 uF.										
Low Temp. Impedance Stability at 120Hz		W. V .		10 , 16	25	35	50 , 63	80, 100	160 ~ 450		
		Z(- 25℃) / Z (+ 20℃)		4	3	3	2	2	4		
		Z(- 40℃) / Z (+ 20℃)		15	10	8	6	5	—		
High Temp. Load Test	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated working voltage applied for 2,000 hours at 105℃ (EGH, at 105℃) Capacitance Change ... ≤ ±20% of the initial value Dissipation Factor ... ≤ 200% of the initial specified value Leakage Current ... ≤ the initial specified value										
High Temp. Non-Load Test	The following specifications shall be satisfied when then capacitors are restored to 20℃ after exposing them at the rated 105℃(EGH, at 105℃) for 1,000 hours without voltage applied to the capacitors for a minimum of 30 minutes, at least 24 hours but not more than 48 hours before the measurements. Capacitance Change ... ≤ ±20% of the initial value Dissipation factor ... ≤ 150% of the initial specified value Leakage Current ... ≤ the initial specified value										

● DRAWING



● MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

Cap.(µ F) \ Freq.(Hz)	(60) 50	120	500	1k	10k
82~470	0.70	1.00	1.10	1.15	1.20
560~1000	0.75	1.00	1.20	1.25	1.35
1200~4700	0.80	1.00	1.25	1.35	1.40
6800 up	0.85	1.00	1.30	1.40	1.45

◆ PART NUMBERING SYSTEM

SK	□□□	□	□□□	□	□□
Series	Rated Cap.	Cap. Tolerance	Rated Voltage	Case Size D	Case Size L

Aluminum Electrolytic Capacitors



SK Series

SK SERIES CASE SIZE TABLE

Parameter	16				25				35				50				63				80				100			
	20				32				44				63				79				100				125			
	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
Cap (μF)																												
1000	Case Size L (mm) →																25				30				30			
	Dissipation Factor →																0.25				0.2				0.2			
	Ripple Current (Arms) 120Hz at 85°C →																0.56				0.59				0.59			
1500													25				30	25			35	30	25		40	35	25	
													0.30				0.25	0.25			0.20	0.15			0.20	0.20		
													0.68				0.73	0.72			0.77	0.77			0.81	0.77		
2200									25				30	25			35	30	25		50	40	30	25		45	35	
									0.35				0.30	0.30			0.25	0.25	0.25		0.20				0.20	0.2	0.2	
									0.71				0.76	0.75			0.81	0.8	0.81		0.93				0.85	0.93	0.9	
3300					25				30	25			35	30	25		45	40	30	25		50	40	30			45	35
					0.4				0.35	0.35			0.30	0.30	0.30		0.25	0.25	0.25	0.25		0.20			0.20		0.2	0.20
					0.87				0.93	0.92			0.99	0.98	0.99		1.09	1.09	1.05	1.05		1.19			1.11		1.21	1.16
4700	25				30	25			35	30	25		45	35	30	25	50	35	30			50	40	30			45	
	0.5				0.40	0.4			0.35	0.35			0.30	0.30	0.30	0.30	0.25	0.25	0.25	0.25		0.25	0.25			0.25	0.25	
	0.93				1	0.98			1.05	1.05			1.16	1.11	1.12	1.12	1.27	1.18	1.18			1.34	1.3					1.35
6800	35	30			35	30	25		50	40	30	25		50	35	30			45	40								
	0.50	0.5			0.40	0.40			0.35				0.30	0.30	0.30				0.25	0.25								
	1.27	1.26			21.27	1.27			1.46				1.53	1.42	1.42				1.55	1.56								
10000	45	35	25		45	35	30	25	50	35	30			45	40													
	0.50		0.50		0.40		0.40		35.00		0.35			0.35	0.35													
	1.43		1.3		1.43				1.57		1.38			1.59	1.6													
15000		45	35	30		45	35	30		50	40																	
		0.50		0.50		0.40		0.40		0.35	0.35																	
		1.84		1.78		1.84		1.78		2.03	1.96																	
22000			45	35			40	40																				
			2.36	2.27			2.36	2.38																				
33000																												

Case size L in parentheses is not standard. On ordering, please ask us detailed specifications.

SK series Case Size Table

Parameter	160					180					200					250				
	200					225					250					300				
	22	25	30	35	40	22	25	30	35	40	22	25	30	35	40	22	25	30	35	40
Cap (μF)																				
82	Case Size L (mm) →																			
	Ripple Current (Arms) 120Hz at 105°C →																			
150																				
180																				
220											25					30	25			
											10.9					1.00	0.98			
270						25					0.86					1.16	1.08			
						0.86					1.03					1.16	1.08			
330	25					30	25				30	25				35	30	25		
	0.98					1.01	1				1.21	1.2				1.28	1.27	1.28		
390	30	25				30	25				35	25				40	35	25		
	1.1	1.09				1.1	1.09				1.39	1.31				1.48	1.46	1.39		
470	30	25				35	30	25			40	30	25			50	40	30	25	
	1.21	1.19				1.28	1.28				1.62	1.52	1.54			1.76	1.69	1.63	1.62	
560	35	30	25			40	30	25			45	35	30	25		45	35	25		
	1.4					1.47	1.48				1.85	1.75	1.96	1.96		1.93	1.87	1.78		
680	40	35	25			45	35	30	25		45	40	35	30		50	35	30		
	1.62		1.54			1.7	1.63	1.63			2.04	2.04	2.27	2.27		2.22	2.06	2.06		
820	45	40	30	25		50	40	30	25		45	40	30				45	36		
	1.86					1.79	1.94		1.79		2.34	2.63	2.51				2.48	2.41		
1000		45	35	25		45	35	30			50	45	36					40		
		2.15		1.98		2.15		2.09			2.7	3	2.92					2.76		
1200		50	35	30			40	30					45					45		
		2.46		2.29			2.39	2.29					3.38					3.14		
1500			45	36			50	36												
			2.8	2.72			2.91	2.72												
1800				40				40												
				3.09				3.09												

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SK Series

SK SERIES CASE SIZE TABLE

Case size L in parentheses is not standard. On ordering, please ask us detailed specifications.

WV(Vdc) Parameter Cap (μF)	350					400					450				
	400					450					500				
	22	25	30	35	40	22	25	30	35	40	22	25	30	35	40
	Case Size L (mm)										25				
47	Ripple Current (Arms) 120Hz at 105℃										0.42				
68						25					30	25	25		
						0.52					0.55	0.54	0.71		
82	25					30	25				35	30	30	25	
	0.47					0.6	0.6				0.64	0.64	0.82	0.82	
100	30	25				30	25				40	35	35	30	
	0.56	0.55				0.67	0.66				0.74	0.74	0.96	0.96	
120	30	25				35	30	25			45	35	35	30	
	0.61	0.6				0.78	0.77	0.78			0.85	0.80	1.06	1.06	
150	35	30	25			40	35	30				45	40	36	
	0.72		0.72			0.91	0.91	0.92				1	1.22	1.24	
180	40	35	30			45	40	30	25			50	50	40	
	0.83		0.84			1.04	1.04	1.01	1.01			1.14	1.48	1.43	
220	50	40	30	25			45	35	30					45	
	1.01			0.93			1.21	1.18	1.18					1.64	
270		45	35	30			50	40	30						
		1.12		1.09			1.4	1.37	1.31						
330		50	40	30				45	36						
		1.29		1.2				1.57	1.52						
390			45	36					40						
			1.43	1.38					1.73						
470				40					45						
				1.58					1.97						
560				45											
				1.79											

Case size L in parentheses is not standard. On ordering, please ask us detailed specifications.

MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

Freq.(Hz) Cap.(μF)	(60) 50	120	500	1k	10k
47~470	0.70	1.00	1.10	1.15	1.20
560~1000	0.75	1.00	1.20	1.25	1.35
1200~4700	0.80	1.00	1.25	1.35	1.40
≥6800	0.85	1.00	1.30	1.40	1.45