

Aluminum Electrolytic Capacitors

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

SK series

105 C high-temperature resistance,
standard product, for general purposes.

105 C耐高溫標準品、普通用途。



SPECIFICATIONS

Items 項目	Characteristics 特 性											
Capacitance Tolerance 靜電容量誤差	± 20% (120Hz, 20 C)											
Operating Temperature Range 適用溫度範圍	-40 ~ +105 C						-40 ~ +105 C			-25 ~ +105 C		
Rated Voltage Range 工作電壓範圍	6.3 ~ 100V						160 ~ 250V			350 ~ 450V		
Leakage Current 洩漏電流	I ≤ 0.01CV or 3(A), which is greater. (After 2 minutes application of working voltage)						I ≤ 0.03CV+20(A), (After 3 minutes application of working voltage)					
Dissipation Factor 散逸因素 (tan	Measurement Frequency: 120 Hz. Temperature: 20 C											
	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100	160~250	350~450
	tan (Max)	0.24	0.20	0.16	0.15	0.12	0.10	0.09	0.08	0.08	0.20	0.25
	When nominal capacitance exceeds 1000 F, add 0.02 to the value above for each 1000 F increase. (20 C · 120Hz)											
Low Temperature Stability 低溫特性 Impedance Ratio (Max) 阻抗比率 (最大值)	Measurement Frequency: 120Hz.											
	Rated Voltage (V)	6.3	10	16	25	35	50~100		160~250		350~400	450
	Z (-25 C) / Z (20 C)	5	4	3	2	2	2		3		6	15
	Z (-40 C) / Z (20 C)	10	8	6	4	3	3		4		-	-
Load Life 負荷壽命	2,000hours, with application of working voltage at 105 C											
	Capacitance Change	Within ± 25% of Initial Value										
	tan	200% or less of Initial Specified Value										
	Leakage Current	Initial Specified Value or less										
Shelf Life 放置壽命	1,000hours, no voltage applied, at 105 C 。 After Test : UR to be applied for 30 minutes, 24 to 48hours before measurement.											
	Capacitance Change	Within ± 20% of Initial Value										
	tan	200% or less of Initial Specified Value										
	Leakage Current	Initial Specified Value or less										
Standards 參照標準	JIS C 5141 and JIS C 5102											

PERMISSIBLE RIPPLE CURRENT

Temperature Coefficient

TEMP (C)	60	70	85	105
Coefficient	1.85	1.65	1.40	1.00

Frequency Coefficient

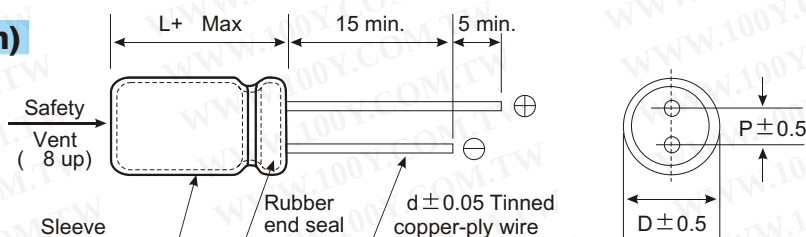
WV (V)	Capacitance (F	Frequency (Hz)			
		50	120	1K	$\geq 10K$
≤ 100	< 100	0.75	1.00	1.57	2.00
	100 ~ 470	0.80	1.00	1.34	1.50
	> 470	0.85	1.00	1.10	1.15
≥ 160	0.47 ~ 470	0.85	1.00	1.40	1.50

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DIMENSIONS (mm)



D	5	6.3	8	10	13	16	18	20	22	25
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	10	12.5
d	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8	1.0

α	(L < 16) 1.0 (L ≥ 16) 2.0
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STANDARD RATINGS

DxL (mm); R.C.: (mA rms) at 105 C, 120Hz.

Cap (F	W V (V)	6.3		10		16		25		35		50		63	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.1~0.47												5 x 11	9		
1												5 x 11	13		
2.2												5 x 11	20		
3.3												5 x 11	25		
4.7								5 x 11	25	5 x 11	26	5 x 11	30		
6.8								5 x 11	29	5 x 11	31	5 x 11	38	5 x 11	42
10						5 x 11	35	5 x 11	36	5 x 11	39	5 x 11	45	5 x 11	48
22	5 x 11	45	5 x 11	45	5 x 11	54	5 x 11	52	5 x 11	62	5 x 11	68	6.3 x 11	90	
33	5 x 11	55	5 x 11	58	5 x 11	65	5 x 11	68	5 x 11	75	6.3 x 11	88	8 x 12	100	
47	5 x 11	65	5 x 11	65	5 x 11	78	5 x 11	80	6.3 x 11	95	6.3 x 11	120	8 x 12	135	
56	5 x 11	75	5 x 11	78	5 x 11	86	5 x 11	90	6.3 x 11	105	6.3 x 11	125	8 x 12	142	
68	5 x 11	85	5 x 11	89	5 x 11	120	5 x 11	125	6.3 x 11	140	6.3 x 11	162	8 x 12	170	
100	5 x 11	92	5 x 11	105	6.3 x 11	125	6.3 x 11	135	8 x 12	160	8 x 14	200	10 x 13	210	
220	6.3 x 11	145	6.3 x 11	175	8 x 12	195	8 x 12	240	10 x 13	275	10 x 16	300	10 x 20	360	
330	6.3 x 11	193	6.3 x 11	205	8 x 12	265	10 x 13	305	10 x 16	400	10 x 20	425	13 x 21	550	
470	6.3 x 11	220	8 x 12	225	8 x 14	315	8 x 16	360	10 x 20	480	13 x 21	630	13 x 25	700	
							10 x 16	380							
560	8 x 12	225	8 x 12	230	8 x 14	320	10 x 16	370	10 x 20	520	13 x 21	640	13 x 25	720	
680	8 x 12	230	8 x 12	240	8 x 16	350	10 x 20	480	13 x 21	580	13 x 25	660	16 x 26	830	
1000	8 x 14	400	10 x 13	440	10 x 16	510	10 x 20	620	13 x 21	750	13 x 25	900	16 x 32	1000	
1500	8 x 20	450	10 x 20	490	10 x 20	530	13 x 21	650	13 x 25	860	16 x 32	1200	18 x 32	1420	
2200	10 x 20	640	10 x 20	690	13 x 21	830	13 x 25	1030	16 x 26	1110	16 x 36	1330	18 x 35	1650	
3300	10 x 20	750	13 x 21	820	13 x 25	1010	16 x 26	1180	16 x 36	1430	18 x 35	1650	22 x 40	1940	
4700	13 x 21	960	13 x 25	1080	16 x 26	1210	16 x 32	1420	18 x 35	1700	22 x 35	2100	22 x 50	2450	
6800	13 x 25	1145	16 x 26	1330	16 x 36	1540	18 x 35	1820	22 x 40	2150	22 x 50	2500			
10000	16 x 26	1430	16 x 36	1680	18 x 35	1930	22 x 40	2140	22 x 50	2650					
15000	16 x 36	1830	18 x 35	2110	22 x 40	2420	22 x 50	2750							
22000	18 x 40	2290	22 x 40	2640	22 x 50	3000									

Cap (F	WV (V)	100		160		200		250		350		400		450	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.1		5 x 11	1.5												
0.22		5 x 11	3.4												
0.33		5 x 11	5.0												
0.47		5 x 11	11	6.3 x 11	10	6.3 x 11	10	6.3 x 11	12	8 x 12	11	8 x 12	12	10 x 13	12
1		5 x 11	16	6.3 x 11	14	6.3 x 11	16	6.3 x 11	16	8 x 12	16	8 x 12	16	10 x 13	18
2.2		5 x 11	25	6.3 x 11	22	6.3 x 11	23	8 x 12	28	8 x 12	25	10 x 13	30	10 x 20	32
3.3		5 x 11	30	8 x 12	30	8 x 12	35	8 x 12	40	10 x 13	32	10 x 13	38	13 x 21	45
4.7		5 x 11	36	8 x 12	40	8 x 12	42	10 x 13	50	10 x 13	38	10 x 16	50	10 x 20	40
6.8		5 x 11	37	8 x 12	42	8 x 12	50	10 x 13	58	10 x 13	63	10 x 16	68	13 x 21	72
10		6.3 x 11	62	10 x 13	50	10 x 16	60	10 x 16	70	10 x 20	80	10 x 16	80	13 x 21	78
22		8 x 12	93	10 x 16	100	10 x 20	135	13 x 21	130	13 x 25	125	13 x 21	125	16 x 26	131
33		8 x 12	110	10 x 20	120	13 x 21	145	13 x 21	150	16 x 26	145	13 x 25	170	16 x 32	175
47		10 x 16	155	13 x 21	160	13 x 25	200	13 x 25	205	16 x 26	210	16 x 26	210	18 x 32	280
68		10 x 16	197	13 x 21	186	13 x 25	210	16 x 26	225	16 x 32	215	16 x 32	215	18 x 35	420
82		10 x 16	217	13 x 25	220	13 x 25	230	16 x 26	248	16 x 32	235	18 x 32	350	18 x 35	470
100		10 x 20	260	16 x 26	300	16 x 26	265	16 x 32	325	18 x 32	335	18 x 35	400	18 x 40	500
120		10 x 25	320	16 x 26	300	16 x 26	300	16 x 32	380	18 x 35	287	18 x 40	450	18 x 45	550
150		13 x 21	375	16 x 26	330	16 x 32	368	18 x 32	450	18 x 40	320	22 x 40	500		
220		13 x 25	480	16 x 36	430	18 x 32	530	22 x 35	700						
330		16 x 26	590	18 x 35	600	22 x 35	620								
470		16 x 32	800	18 x 40	725	22 x 40	830								
1000		18 x 35	1300	22 x 50	985	25 x 50	1310								
2200		18 x 40	1650												

※ 13mm may be replaced by 12.5mm upon customer's request.