



ALUMINUM ELECTROLYTIC CAPACITORS

SKC 7mm/9mm height (7mm/9mm高, +105°C长寿命) Series

■ Features : 105°C long life 2000 hours , 7.0/9.0mm height.

特点: +105°C 长寿命 2000小时, 7mm/9mm高.

■ Recommended Applications : Audio equipment, communication equipments, switching power supply, industrial measuring instruments, automotive electric products, etc.

适用于音频设备、通信设备、开关电源、工业测量仪、汽车电子产品等.

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

符合RoHS要求的相应产品(2011/65/EU)

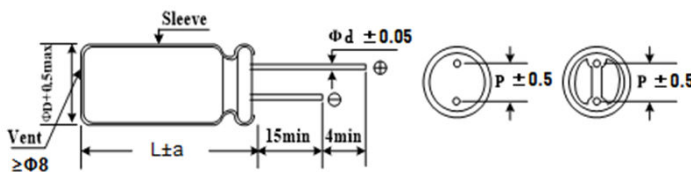


■ Specifications(技术性能)

Item 项目	Characteristics 性能																								
Operating Temperature Range 温度范围	-40 ~ +105°C																								
Rated Voltage Range 电压范围	6.3 ~ 63VDC																								
Rated Capacitance Range 容量范围	0.1 ~ 470μF																								
Capacitance Tolerance 容量偏差	± 20 % at 120Hz , 20°C																								
Leakage Current (MAX) (20°C) 泄漏电流	I=0.01CV or 3(μA) whichever is greater. (After rated voltage applied for 2 minutes) 两者取较大值, 2分钟测试																								
Dissipation Factor 损耗角 (tanδ) (120Hz ,20°C)	<table border="1"> <tr> <td>WV(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>tan δ</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table>	WV(V)	6.3	10	16	25	35	50	63	tan δ	0.24	0.20	0.18	0.16	0.14	0.12	0.10								
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Low Temperature Stability Impedance Ratio (MAX) 低温阻抗比	<table border="1"> <tr> <td>WV Z(120Hz)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </table>	WV Z(120Hz)	6.3	10	16	25	35	50	63	Z-25°C / Z+20°C	4	3	2	2	2	2	2	Z-40°C / Z+20°C	8	6	4	4	4	4	4
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High Temperature Load Life 高温负载耐久性	<p>After applying rated voltage for 2000 hours at 105°C. the capacitors shall meet the following requirements. 在105°C环境下连续施加额定电压2000小时后, 符合以下要求.</p> <table border="1"> <tr> <td>Capacitance Change 容量</td> <td>Within ± 20 % of initial value 在初始值的±20%</td> </tr> <tr> <td>Dissipation Factor 损耗角</td> <td>Not more than 200% of the specified value 不超过标准值的200%</td> </tr> <tr> <td>Leakage Current 泄漏电流</td> <td>Initial specified value or less 标准值内</td> </tr> </table>	Capacitance Change 容量	Within ± 20 % of initial value 在初始值的±20%	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																		
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High Temperature Shelf Life 高温放置耐久性	<p>After leaving capacitors under no load at 105°C for 1000 hours.the capacitors shall meet the same requirement as Endurance. 在105°C环境下不加负载放置1000小时后电性能同耐久性要求.</p>																								

■ Diagram of Dimensions

外形尺寸



Unit: mm

ΦD	4	5	6.3	8
P	1.5	2.0	2.5	2.5/3.5
Φd	0.45			0.5
a	1.0			

■ Multiplier for Ripple Current

(1) Frequency Coefficient (频率系数)

Frequency (Hz)	50	120	300	1K	10K~
≤47uF	0.75	1.00	1.35	1.57	2.00
56uF~470uF	0.80	1.00	1.23	1.34	1.50

(2) Temperature Coefficient(温度系数)

Temperature (°C)	-40	65	70	85	105
Factor	2.23	2.17	2.00	1.75	1.00



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Series

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

Capacitance (μ F)	Rated (Surge) Voltage (V)													
	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
0.1											4x7	1	4x7	1
0.22											4x7	2	4x7	2
0.33											4x7	3	4x7	3
0.47											4x7	5	4x7	5
1.0											4x7	10	4x7	10
2.2					4x7	10					4x7	20	4x7	20
3.3					4x7	10					4x7	25	4x7	25
4.7					4x7	15	4x7	20	4x7	25	4x7	30	5x7	35
10					4x7	25	4x7	30	4x7	35	5x7	35	6.3x7	50
22			4x7	30	4x7	35	5x7	50	5x7	60	6.3x7	65		
33	4x7	35	4x7	40	5x7	50	6.3x7	65	6.3x7	70	8x7	80		
47	5x7	50	5x7	60	6.3x7	70	6.3x7	70	8x7	80	8x9	100		
100	5x7	70	6.3x7	90	6.3x7	110	8x7	115	8x9	145				
220	6.3x7	110	6.3x7	135	8x9	180								
330	8x7	150	8x9	160	8x9	210								
470	8x9	200	8x9	210										

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