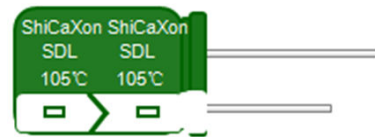




# ALUMINUM ELECTROLYTIC CAPACITORS

## SDL 105°C Low Leakage Current ( +105°C 低漏电) Series

- Extremely low and stable leakage current characteristics.  
特点: 极低和稳定的泄漏电流特性.
- Close capacitance tolerance  $\pm 20\%$  ( $\pm 10\%$ ).  
静电容量公差 $\pm 20\%$  ( $\pm 10\%$ ).
- Corresponding product to RoHS (2011/65/EU)  
符合RoHS要求的相应产品(2011/65/EU)

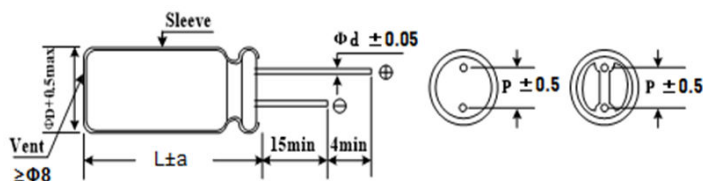


### Specifications (技术性能)

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 ~ 100VDC																											
Rated Capacitance Range 容量范围	0.1 ~ 3300 $\mu$ F																											
Capacitance Tolerance 容量偏差	$\pm 20\%$ at 120Hz, 20°C																											
Leakage Current (MAX) (20°C) 泄漏电流	I=0.002CV or 0.8( $\mu$ A) 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 (tan $\delta$ ) (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> <td>100</td> </tr> <tr> <td>tan <math>\delta</math> (max)</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>###</td> </tr> </table>	WV (V)	6.3	10	16	25	35	50	63	100	tan $\delta$ (max)	0.28	0.24	0.20	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> <td>100</td> </tr> <tr> <td>Z(-25°C) / Z(+20°C)</td> <td>5</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>12</td> <td>10</td> <td>8</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	WV Z(120Hz)	6.3	10	16	25	35	50	63	100	Z(-25°C) / Z(+20°C)	5	4	3	2	2	2	2	2	Z(-40°C) / Z(+20°C)	12	10	8	4	3	3	3	3
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Z(-40°C) / Z(+20°C)	12	10	8	4	3	3	3	3																				
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 <math>\pm 20\%</math> of initial value 在初始值的<math>\pm 20\%</math></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 $\pm 20\%$ of initial value 在初始值的 $\pm 20\%$	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 500 hours. the capacitors shall meet the same requirement as Endurance. 在105°C环境下不加负载放置500小时后电性能同耐久性要求.</p>																											

### CASE SIZE TABLE

外形尺寸



Unit: mm

$\Phi$ D	5	6.3	8	10
P	2.0	2.5	3.5	5.0
$\Phi$ d	0.5	0.5	0.5	0.6
a	(L < 20) 1.5 (L $\geq$ 20) 2.0			

### RIPPLE CURRENT MULTIPLIER (纹波电流修正系数)

(1) Frequency Coefficient (频率系数)

Frequency (Hz)	120	300	1K	10K~
$\leq 47\mu$ F	1.00	1.40	1.60	2.00
56 $\mu$ F~470 $\mu$ F	1.00	1.20	1.30	1.50
560 $\mu$ F~3300 $\mu$ F	1.00	1.10	1.10	1.50

(2) Temperature Coefficient (温度系数)

Temperature (°C)	-40	65	70	85	105
Factor	2.2	###	###	###	###



# ALUMINUM ELECTROLYTIC CAPACITORS

**SDL** 105°C Low Leakage Current ( +105°C 低漏電 )  
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 ( $\mu\text{F}$ )	Rated (Surge) Voltage (V)															
	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (79)		100 (125)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1											5x11	10	5x11	10	5x11	10
2.2											5x11	14	5x11	16	5x11	18
3.3											5x11	21			5x11	24
4.7							5x11	18	5x11	21	5x11	24	5x11	27	5x11	27
10					5x11	24	5x11	30	5x11	33	5x11	39	5x11	42	6.3x12	45
22	5x11	21	5x11	33	5x11	45	5x11	48	5x11	51	6.3x12	57	6.3x11	69	8x12	78
33	5x11	33	5x11	48	5x11	54	5x11	57	5x11	63	6.3x12	75	8x12	84	10x13	102
47	5x11	45	5x11	57	5x11	66	5x11	69	6.3x12	84	6.3x12	90	8x12	114	10x16	138
100	5x11	78	5x11	87	6.3x12	105	6.3x12	111	8x12	138	8x12	150	10x13	180		
220	6.3x12	129	6.3x12	138	8x12	180	8x12	192	10x13	222	10x16	264	10x20	294		
330	6.3x12	159	8x12	198	8x12	216	10x13	252	10x16	294	10x20	398				
470	8x12	216	8x12	234	10x13	282	10x16	324	10x20	384						
1000	10x13	342	10x16	378	10x20	474										

☆ Size:  $\Phi\text{D} \times \text{L}$  (mm) ☆ Ripple Current: (mA/rms), 105°C, 120Hz