

# SV

## 特点 Features

- 保证85°C 1000小时。Endurance : 1000h at 85°C.
- 额定电压范围：4~50V。Rated Voltage Range: 4~50V.
- 低高度（5mm L）。Low Profile(5mm L).
- 满足RoHS。RoHS Compliant.



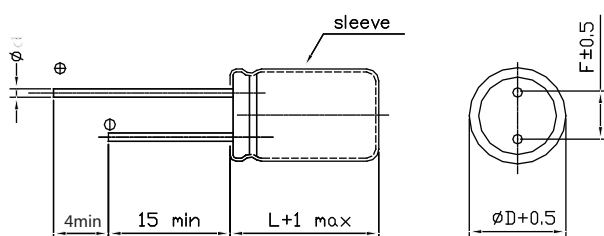
## 主要技术性能 Specifications

项目 Item	特性 Performance Characteristics																									
类别温度范围 Category Temperature Range	-40~+85°C																									
额定电压范围 Rated Voltage Range (U <sub>R</sub> )	4~50V																									
标称电容范围 Rated Capacitance Range(C <sub>R</sub> )	0.1~470µF	120Hz, +20°C																								
标称电容允许偏差 Rated Capacitance Tolerance(C <sub>T</sub> )	±20%(M)	120Hz, +20°C																								
漏电流 Leakage Current(I <sub>L</sub> )	≤0.01C <sub>R</sub> U <sub>R</sub> 或者3µA 取较大值 ( Whichever is greater )																									
损耗角正切值 Tangent of loss angle(Tanδ)	<table border="1"> <tr> <td>U<sub>R</sub> (V)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tanδ</td> <td>0.35</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> </tr> </table>	U <sub>R</sub> (V)	4	6.3	10	16	25	35	50	Tanδ	0.35	0.24	0.20	0.16	0.14	0.12	0.12	Max. 120Hz, +20°C								
U <sub>R</sub> (V)	4	6.3	10	16	25	35	50																			
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低温特性 Characteristics at low temperature	<table border="1"> <tr> <td>U<sub>R</sub> (V)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z<sub>-25°C</sub> / Z<sub>+20°C</sub></td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z<sub>-40°C</sub> / Z<sub>+20°C</sub></td> <td>15</td> <td>10</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	U <sub>R</sub> (V)	4	6.3	10	16	25	35	50	Z <sub>-25°C</sub> / Z <sub>+20°C</sub>	7	4	3	2	2	2	2	Z <sub>-40°C</sub> / Z <sub>+20°C</sub>	15	10	6	4	4	3	3	Max. 120Hz
U <sub>R</sub> (V)	4	6.3	10	16	25	35	50																			
Z <sub>-25°C</sub> / Z <sub>+20°C</sub>	7	4	3	2	2	2	2																			
Z <sub>-40°C</sub> / Z <sub>+20°C</sub>	15	10	6	4	4	3	3																			
耐久性 Load life	+85°C, 不超过额定电压的范围内叠加额定纹波电流, 连续加载额定电压1000小时, 恢复16小时后: Overlay the rated ripple current within the range of rated voltage and continuously load the rated voltage for 1000 hours+85°C ; and recover for 16 hours : 电容变化率Capacitance change : ±25%初始测量值以内 within ±25% of initial value ( 4V andΦ3 : ≤±30% ) 损耗角正切值 Tanδ : ≤2倍初始规定值 Not more than 200% of specified value 漏电流 Leakage current : ≤初始规定值 Not more than specified value																									
高温贮存 Shelf life	+85°C,1000小时贮存后,恢复16小时后: After storage for 1000 hours at +85°C and then recovery 16 hours: 电容变化率Capacitance change : ±25%初始测量值以内 within ±25% of initial value ( 4V andΦ3 : ≤±30% ) 损耗角正切值 Tanδ : ≤2倍初始规定值 Not more than 200% of specified value 漏电流 Leakage current : ≤2倍初始规定值 Not more than 200% of specified value																									

## 频率修正系数 Frequency Coefficient

Frequency (Hz)	Kf			
	60	120	1K	≥10k
0.1~68	0.8	1	1.3	1.5
100~470	0.8	1	1.15	1.2

## 尺寸图 Dimension drawings



单位 Unit: mm

D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45			

规格特性表  
Table of specifications and characteristics

U <sub>R</sub> (V) C <sub>R</sub> (μF)	4		6.3		10		16		25		35		50	
	ΦD×L mm*mm	I <sub>AC,max</sub> 120Hz 85°C mA	ΦD×L mm*mm	I <sub>AC,max</sub> 120Hz 85°C mA	ΦD×L mm*mm	I <sub>AC,max</sub> 120Hz 85°C mA	ΦD×L mm*mm	I <sub>AC,max</sub> 120Hz 85°C mA	ΦD×L mm*mm	I <sub>AC,max</sub> 120Hz 85°C mA	ΦD×L mm*mm	I <sub>AC,max</sub> 120Hz 85°C mA	ΦD×L mm*mm	I <sub>AC,max</sub> 120Hz 85°C mA
0.1													4×5	1.5
0.22													4×5	2.6
0.33													4×5	3.2
0.47													4×5	4.0
1													4×5	8
2.2					4×5	6	4×5	7					4×5	13
3.3					4×5	8	4×5	9			4×5	14	4×5	17
4.7					4×5	12			4×5	16	4×5	18	5×5	20
10									5×5	27	5×5	29	6.3×5	33
22							4×5	37	5×5	37	6.3×5	46	6.3×5	40
	4×5	22	4×5	32	4×5	36	5×5	40	6.3×5	42	8×5	50	8×5	52
33	4×5	28	4×5	37	4×5	41	5×5	49	6.3×5	52	8×5	62	8×5	71
47	4×5	33	4×5	45	5×5	52	6.3×5	58	8×5	70	8×5	80		
100	5×5	56	5×5	70	5×5	65	6.3×5	80	8×5	110				
					6.3×5	80	8×5	92						
220	6.3×5	96	6.3×5	110	6.3×5	105	8×5	135						
					8×5	135								
330	8×5	145	8×5	145	8×5	146	8×5	148						
470	8×5	185	8×5	210										

ALUMINIUM ELECTROLYTIC CAPACITORS

SMD

MINIATURE

BI-POLAR

STANDARD

LOW-ESR

HIGH RELIABILITY

SNAP-IN

SCREW