

RVK-SC Series

LOW LEAKAGE CURRENT 低漏电流

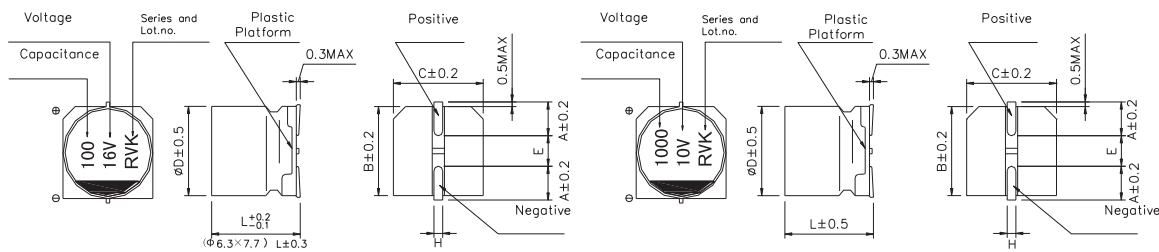
- Low leakage current (0.5 ~ 3.3μA max.)
低漏电流 (0.5 ~ 3.3 μA最大值)
- Low cost for replacement of some tantalum applications
可替换价格较高的钽电容器
- Comply with the RoHS directive
符合RoHS指令



主要技术性能 Specification

项目 Item	特性 Performance Characteristics																						
使用温度范围 Operating temperature range	-55 ~ +85°C																						
额定电压范围 Rated voltage range	6.3 ~ 50V																						
标称电容量范围 Nominal capacitance range	0.1 ~ 220μF																						
标称电容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20°C)																						
漏电流 Leakage current	$I \leq 0.01CV$ 或 $3(\mu A)$ 2分钟 取较大者 (at 20°C, after 2 minutes) (whichever is greater)	$I \leq 0.02CV + 15(\mu A)$ 1分钟 (1 minute)																					
损耗角正切值 (tg δ) Dissipation factor (+20°C, 120Hz)	<table border="1"> <tr> <td>U_R (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Surge voltage</td> <td>8.0</td> <td>13</td> <td>20</td> <td>32</td> <td>44</td> <td>63</td> </tr> <tr> <td>tg δ</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> </tr> </table>		U_R (V)	6.3	10	16	25	35	50	Surge voltage	8.0	13	20	32	44	63	tg δ	0.24	0.20	0.16	0.14	0.12	0.10
U_R (V)	6.3	10	16	25	35	50																	
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tg δ	0.24	0.20	0.16	0.14	0.12	0.10																	
温度特性 Temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>U_R (V)</td> <td>6.3</td> <td>10</td> <td>16, 25</td> <td>35, 50</td> </tr> <tr> <td>Z(-25°C) / Z(20°C)</td> <td>4</td> <td>3</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>3</td> </tr> </table>		U_R (V)	6.3	10	16, 25	35, 50	Z(-25°C) / Z(20°C)	4	3	2	2	Z(-40°C) / Z(20°C)	8	6	4	3						
U_R (V)	6.3	10	16, 25	35, 50																			
Z(-25°C) / Z(20°C)	4	3	2	2																			
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耐久性 Load life	After 2000 hours application of the rated voltage at 85°C, they meet the characteristics listed below. 在85°C环境中施加额定工作电压2000小时后, 电容器的特征符合下表的要求。 电容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏电流 Leakage current : ≤初始规定值 ≤the initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2times of the initial specified value																						
高温贮存 Shelf life	+105°C, 1000小时贮存后, 恢复16小时后: After storage for 1000 hours at +105°C and then resumed for 16 hours: 电容量变化率 Capacitance change : ±10%初始测量值以内 10% of the initial measured value 漏电流 Leakage current : ≤ 2倍初始规定值 ≤2times of the initial specified value 损耗角正切值 Dissipation factor : ≤ 2倍初始规定值 ≤2times of the initial specified value																						

外形图及尺寸图 Case size table



*1. Voltage mark for 6.3V is [6V] 6.3V的产品标识为 [6V]
 *2. Applicable to Ø6.3x7.7 适用于Ø6.3x7.7

ØD x L	4 x 5.4	5 x 5.4	6.3 x 5.4	6.3 x 7.7
A	1.8	2.1	2.4	2.4
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E ± 0.2	1.0	1.3	2.2	2.2
L	5.4	5.4	5.4	7.7

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■ 尺寸 Dimensions

μF	WV Code 代码	6.3			10			16		
		0J			1A			1C		
10	100							4 × 5.4	34.5	25
22	220	4 × 5.4	23.5	31	5 × 5.4	19.6	35	5 × 5.4	15.7	39
33	330	5 × 5.4	15.7	39	5 × 5.4	13.1	43	6.3 × 5.4	10.5	57
47	470	5 × 5.4	11.0	47	6.3 × 5.4	9.2	59	6.3 × 5.4	7.3	68
100	101	6.3 × 5.4	5.2	75	6.3 × 5.4	4.3	76	6.3 × 7.7	3.5	96
220	221	6.3 × 7.7	2.4	85						

μF	WV Code 代码	25			35			50		
		1E			1V			1H		
0.1	0R1							4 × 5.4	2156	1.0
0.22	R22							4 × 5.4	980	2.3
0.33	R33							4 × 5.4	653	3.5
0.47	R47							4 × 5.4	459	5
1	010							4 × 5.4	216	10
2.2	2R2							4 × 5.4	98	15
3.3	3R3							4 × 5.4	65	18
4.7	4R7	4 × 5.4	64.2	19	4 × 5.4	55.1	20	5 × 5.4	46	23
10	100	5 × 5.4	30.2	28	5 × 5.4	25.9	30	6.3 × 5.4	22	34
22	220	6.3 × 5.4	13.7	52	6.3 × 5.4	11.8	54	6.3 × 7.7	9.8	85
33	330	6.3 × 5.4	9.1	63	6.3 × 7.7	7.8	105			
47	470	6.3 × 7.7	6.4	100	6.3 × 7.7	5.5	110			

■ 纹波电流的相关参数 Multiplier For Ripple Current

Frequency 频率	-50Hz	120Hz	300Hz	1KHz	10KHz-
Coefficient 系数	0.70	1.00	1.17	1.36	1.50