

RVT 贴片式铝电解电容



A. 工作温度范围宽 (-40°C ~ +85°C)
Operating over wide temperature range

B. 适用于高密度表面组装
Available for high density surface mounting

C. 适用于再流焊
Reflow soldering is available

D. 性能稳定、可靠性高

High stability and reliability

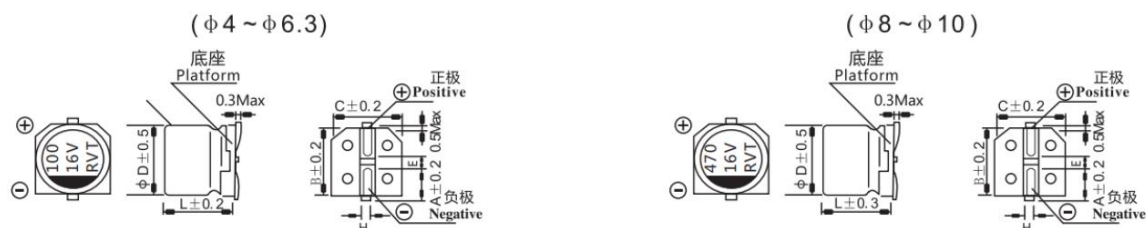
E. ROHS, REACH指令已对应完毕

Adapted to the ROHS, REACH directive

主要技能性能 Specifications

使用温度范围 Operating temperature range	-40℃~+85℃																																
额定电压范围 Reted voltage range	6.3V~100V																																
标称容量范围 Nominal capactitance range	0.1~1500μF																																
标称容量允许偏差 Capacitance tolerance	±20% (120Hz, 20℃)																																
漏电流 (20℃) Leakage current	1≤0.01CRVR or 3(μA),取较大者 (2分钟) CR:标称容量 (μF) UR:额定电压 (V)																																
损耗角正切值 Dissipation factor (120Hz 20℃)	<table><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><td>63</td><td>100</td></tr><tr><td>tgδ</td><td>0.30</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>0.12</td></tr></table>									U ^R (V)	6.3	10	16	25	35	50	63	100	tgδ	0.30	0.24	0.20	0.18	0.16	0.14	0.12	0.12						
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耐久性 Load Life	<p>+105℃施加额定电压1000小时，恢复16小时后，电容器应满足要求 After applying rated voltage for 1000hours at +105℃ and then resumed 16 hours,the capacitor shall meet the following limits:</p> <table><tr><td>电容量变化率 Capacitance change</td><td>±20%初始值内 Within 20% of initial value</td></tr><tr><td>漏电流值 Leakage</td><td>≤200%初始规定值 200% or less of initial specified value</td></tr><tr><td>损耗角正切值 Dissipation factor</td><td>≤初始规定值 Not more than the initial specified value</td></tr></table>									电容量变化率 Capacitance change	±20%初始值内 Within 20% of initial value	漏电流值 Leakage	≤200%初始规定值 200% or less of initial specified value	损耗角正切值 Dissipation factor	≤初始规定值 Not more than the initial specified value																		
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高温贮存 shelf life	<p>+105℃贮存1000小时后，电容器应满足以上耐久性要求 After storage for 1000 hours at + 105℃,the capacitors shall meet the requirement of load life above</p>																																
低温特性 low temperature stability 阻抗比 Impedance ratio (120Hz)	<table><tr><td>U_R (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_{-25℃}/Z_{+20℃}</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_{-40℃}/Z_{+20℃}</td><td>15</td><td>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td></tr></table>									U _R (V)	4	6.3	10	16	25	35	50	Z _{-25℃} /Z _{+20℃}	7	4	3	2	2	2	2	Z _{-40℃} /Z _{+20℃}	15	8	6	4	4	3	3
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耐焊接热 Resistance to Soldering Heat	<p>在250℃的条件下，电容器应在热板上保持30秒，然后从热板上取出电容器，让其在温度下恢复，电容器应满足以下要求： The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds.After removing from the hot plate and restored room temperature , then meet the following requirement:</p> <table><tr><td>电容量变化率 Capacitance change</td><td>±10%初始值内 Within 10% of initial value</td></tr><tr><td>损耗角正切 Dissipation factor</td><td>≤初始规定值 Not more than the initial specified value</td></tr><tr><td>漏电流 Leakage Current</td><td>≤初始规定值 Not more than the initial specified value</td></tr></table>									电容量变化率 Capacitance change	±10%初始值内 Within 10% of initial value	损耗角正切 Dissipation factor	≤初始规定值 Not more than the initial specified value	漏电流 Leakage Current	≤初始规定值 Not more than the initial specified value																		
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外形图及尺寸表 Case Size Table



	4*5.4	4*5.4	6.3*5.4	6.3*7.7	8*6.5	8*10.5	10*10.5
A	1.8	2.1	2.4	2.4	2.9	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
E	1.0	1.3	2.2	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	7.7	6.5	10.5	10.5
H	0.5~0.8					0.8~1.1	

标称电容量、额定电压、额定纹波电流与外形尺寸对应表

Nominal capacitance, rated voltage, rated ripple current and case size table

V μF	6.3		10		16		25		35		50	
	D×L MM	I~mA	D×L MM	I~mA	D×L MM	I~mA	D×L MM	I~mA	D×L MM	I~mA	D×L MM	I~mA
0.1											4*5.4	2.3
0.22											4*5.4	3.4
0.33											4*5.4	4.1
0.47											4*5.4	5
1.0											4*5.4	10
2.2											4*5.4	16
3.3									4*5.4	13	4*5.4	16
4.7							4*5.4	22	4*5.4	22	5*5.4	23
10					4*5.4	28	5*5.4	28	5*5.4	30	6.3*5.4	32
22	4*5.4	29	5*5.4	30	5*5.4	39	6.3*5.4	55	6.3*5.4	60	6.3*7.7	51
33	5*5.4	34	5*5.4	34	5*5.4	35	6.3*5.4	65	8*6.5	84	6.3*7.7	70
47	5*5.4	46	6.3*5.4	48	6.3*5.4	70	6.3*5.4	70	6.3*7.7	80	6.3*7.7	80
100	6.3*7.7	71	6.3*5.4	69	6.3*5.4	70	6.3*7.7	100	8*10.5	296	8*10.5	230
220	6.3*7.7	120	6.3*7.7	120	6.3*7.7	120	8*10.5	320	10*10.5	435	10*10.5	375
330	8*10.5	290	8*10.5	305	8*10.5	425	10*10.5	450	10*10.5	450		
470	8*10.5	330	8*10.5	340	8*10.5	340	10*10.5	490				
1000	8*10.5	340	10*10.5	410	10*10.5	450						
1500	10*10.5	475										

额定纹波电流的频率系数

Frequency coefficient of rated ripple current

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