

RVE 贴片式铝电解电容



- A. 工作温度范围宽 (-55°C~+105°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	-55°C~+105°C																																							
额定电压范围 Reted voltage range	6.3V~50V																																							
标称电容量范围 Nominal capactitance range	1 ~ 220 μF																																							
标称电容量允许偏差 Capacitance tolerance	20% at 120Hz, +20C																																							
漏电流 (20°C) Leakage current	2分钟后读数 (After 2 minutes of reading) $I \leq 0.01 CV$ or 3 (A) whichever is greater																																							
损耗角正切值 Dissipation factor (120Hz 20°C)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 15%;">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>tgδ</td> <td>0.26</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	tgδ	0.26	0.20	0.16	0.14	0.12	0.10																									
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耐久性 Load Life	<p>105°C施加额定电压2000小时后，放置16小时后，电容器应满足以下要求： After applying rated voltage with max ripple current for 2000hrs at +105°C,and then resumed 16 hours, the capacitors Shall meet the following requirements.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 50%;">电容量变化率 Capacitance change</td> <td>±30%初始值内 Within 30% of initial value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤初始规定值 Not more than the initial specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation factor</td> <td>≤300%初始规定值 300% or less of initial specified value</td> </tr> </table>	电容量变化率 Capacitance change	±30%初始值内 Within 30% of initial value	漏电流值 Leakage	≤初始规定值 Not more than the initial specified value	损耗角正切值 Dissipation factor	≤300%初始规定值 300% or less of initial specified value																																	
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高温贮存 shelf life	<p>+105°C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°C,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 border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td rowspan="4" style="width: 25%;">Low Temperature Stability Impedance Ratio (MAX) 120Hz</td> <td colspan="2" style="border-bottom: none;">Rated Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td rowspan="2" style="border-left: none; border-right: none;">Z-25C/Z+20C (120Hz)</td> <td style="border-left: none;">< Φ8</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td style="border-left: none;">≥ Φ8</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td rowspan="2" style="border-left: none; border-right: none;">Z-55°C/Z+20°C (120Hz)</td> <td style="border-left: none;">< Φ8</td> <td>12</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> <tr> <td style="border-left: none;">≥ Φ8</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	Low Temperature Stability Impedance Ratio (MAX) 120Hz	Rated Voltage (V)		6.3	10	16	25	35	50	Z-25C/Z+20C (120Hz)	< Φ8	4	3	2	2	2	2	≥ Φ8	5	4	3	2	2	2	Z-55°C/Z+20°C (120Hz)	< Φ8	12	8	4	4	3	3	≥ Φ8	10	8	6	4	3	3
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耐焊接热 Resistance to Soldering Heat	<p>在250°C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°C for 30 seconds.After removing from the hot plate and restored room temperature , then meet the following requirement:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 50%;">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



Size	Φ4×5.4	Φ5×5.4	Φ6.3×5.4	Φ6.3×7.7	Φ8×6.5	Φ8×10.2	Φ10×10.2
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	3.1(2.2)	3.1	4.5
L	5.4	5.4	5.4	7.7	6.5	10.3	10.3
H	0.5~0.9				0.8~1.1		

电气参数：Electric parameter

NO	Series	Name (WV / uF)	DΦ* L	Cap. tol. (%) 120Hz 20°C	DF (%) 120Hz 20°C ≤	LC (uA) (2min) ≤	E ±0.5	Allowable ripple current (mA rms) at 105C, 120Hz	ESR 100KHz (Ω) 20°C ≤	Remarks
1	RVE	16V10	4*5.4	±20%	16	3	1.0	50	4.5	
2	RVE	25V/100UF	6.3*7.7	±20%	14	25	2.2	150	0.85	
3	RVE	16V/220UF	6.3*7.7	±20%	16	16	2.2	240	0.43	
4	RVE	35V/100UF	6.3*7.7	±20%	12	35	2.2	240	0.43	
5	RVE	16V/100UF	6.3*5.4	±20%	16	16	2.2	150	0.85	
6	RVE	16V/22UF	4*5.4	±20%	16	3.5	1.0	80	1.9	
7	RVE	50V/47UF	6.3*7.7	±20%	12	23.5	2.2	116	1.7	
8	RVE	50V/100UF	8*10.2	±20%	12	50	3.1	185	0.85	
9	RVE	16V/470UF	8*10.2	±20%	16	75	3.1	285	0.34	

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	0.64	0.5	0.64	0.83	1.0