

## VT

### 贴片式铝电解电容



- A. 工作温度范围宽 (-40°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	-40°C~+105°C																								
额定电压范围 Rated voltage range	6.3V~100V																								
标称容量范围 Nominal capacitance range	0.1~1500μF																								
标称容量允许偏差 Capacitance tolerance	±20% (120Hz, 20°C)																								
漏电流 (20°C) 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°C)	<table border="1"> <thead> <tr> <th>UR (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <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> </tbody> </table>	UR (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°C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°C and then resumed 16 hours,the capacitor shall meet the following limits:</p> <table border="1"> <tbody> <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> </tbody> </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°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"> <thead> <tr> <th>UR (V)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <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>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	UR (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	8	6	4	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"> <tbody> <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> </tbody> </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