

# RVT-VT 宽温品 片式铝电解电容 Chip Type Aluminum Electrolytic Capacitors



### 产品特点 Features

适用-55℃~+105℃温度范围，寿命2,000小时；性能稳定，可靠性高；产品直径：φ4mm~φ12.5mm  
 -55℃~+105℃ temperature range, life 2000 hours; stable performance, high reliability  
 The diameter of the product: φ4mm~φ12.5mm

### 主要技术性能 Specifications

项目 Items	特性 Characteristics																																																		
工作温度范围 Category Temperature Range	-55℃~+105℃																																																		
额定电压范围 Rated Voltage Range	4~100V.DC																																																		
标称容量范围 Nominal Capacitance Range	1μF ~ 2200 μ F																																																		
标称容量允许偏差 Nominal Capacitance Tolerance	± 20%(120Hz,+20 °C)																																																		
泄漏电流范围 Leakage Current(MAX)	I=0.01CV( μ A) or 3 ( μ A) after 2 minutes I=Leakage Current( μ A) C=Nominal Capacitance( μ F) V=Roted Voltage(V)																																																		
损耗角正切值 Dissipation Factor(MAX) Tan δ (20℃,120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage(V)</th> <th>4</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>Tan δ</td> <td>0.35</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>0.14</td> <td>0.14</td> </tr> </tbody> </table>	Rated Voltage(V)	4	6.3	10	16	25	35	50	63	100	Tan δ	0.35	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14																														
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耐久性 Load Life	<p>+105℃施加额定工作电压2000H后，放置16H，电容器应满足以下要求。 After applying rated voltage with max ripple current for 2000hrs at 105℃,and then resumed 16 hours, the capacitors shall meet the following requirements</p> <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>± 30%初始值以内</td> <td>Within ± 30% of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>≤ 200%初始值以内</td> <td>Not more than 200% of the specified value</td> </tr> <tr> <td>Leakage Current</td> <td>≤ 初始规定值</td> <td>Not more than the specified value</td> </tr> </tbody> </table>	Capacitance Change	± 30%初始值以内	Within ± 30% of the initial value	Dissipation Factor	≤ 200%初始值以内	Not more than 200% of the specified value	Leakage Current	≤ 初始规定值	Not more than the specified value																																									
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高温贮存 Shelf Life	<p>+105℃, 贮存1000H后，放置16H，电容器应满足以下要求。 After storage for 1000hrs at 105℃, then resumed 16 hours, the capacitors shall meet the following requirements</p> <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>± 30%初始值以内</td> <td>Within ± 30% of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>≤ 200%初始值以内</td> <td>Not more than 200% of the specified value</td> </tr> <tr> <td>Leakage Current</td> <td>≤ 300%初始值以内</td> <td>Within 300% of initial specified value</td> </tr> </tbody> </table>	Capacitance Change	± 30%初始值以内	Within ± 30% of the initial value	Dissipation Factor	≤ 200%初始值以内	Not more than 200% of the specified value	Leakage Current	≤ 300%初始值以内	Within 300% of initial specified value																																									
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耐焊接热 Resistance to Soldering Heat	<p>在250℃的条件下，电容器在热板上保持30秒，然后从热板上取出电容器，让其在室温下恢复，电容器应满足以下要求。 The capacitors shall be kept on then hot plate maintained at 250℃ for 30 seconds.After removing from the hot plate and restored at room temperature, they meet the following requirement:</p> <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>± 10%初始值以内</td> <td>Within ± 10% of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>≤ 初始规定值</td> <td>Not more than the initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>≤ 初始规定值</td> <td>Not more than the initial specified value</td> </tr> </tbody> </table>	Capacitance Change	± 10%初始值以内	Within ± 10% of the initial value	Dissipation Factor	≤ 初始规定值	Not more than the initial specified value	Leakage Current	≤ 初始规定值	Not more than the initial specified value																																									
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■ 尺寸图 Dimensions

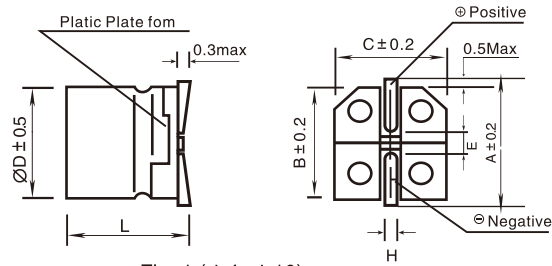


Fig. 1 (Φ4~Φ10)

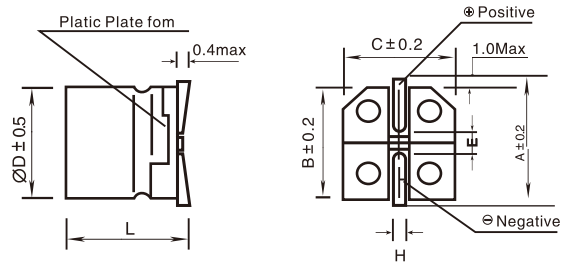


Fig. 2 (≥Φ12.5)

单位: mm

ΦD	L	A	B	C	E	H	Fig.No.
4	5.4 ± 0.3	5.0	4.3	4.3	1.0	0.5~0.9	1
5	5.4 ± 0.3	6.0	5.3	5.3	1.5	0.5~0.9	1
6.3	5.4 ± 0.3	7.2	6.6	6.6	2.1	0.5~0.9	1
6.3	7.7 ± 0.3	7.2	6.6	6.6	2.1	0.5~0.9	1
8	6.5 ± 0.5	9.1	8.3	8.3	3.1	0.8~1.1	1
8	10.2 ± 0.5	9.1	8.3	8.3	3.1	0.8~1.1	1
10	10.2 ± 0.5	11.1	10.3	10.3	4.5	0.8~1.1	1
12.5	13.5 ± 0.5	13.7	13.0	13.0	4.4	1.0~1.4	2

■ 标准品一览表 Standard Size

V	6.3		10		16		25		35		50		63		100	
μF	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA
1											4×5.4	8.0	4×5.4	7.2	4×5.4	7.2
2.2											4×5.4	12	4×5.4	12	6.3×5.4	15
3.3									4×5.4	14	4×5.4	14	5×5.4	14	6.3×5.4	22
4.7							4×5.4	14	4×5.4	15	4×5.4	14	5×5.4	17	6.3×5.4	23
											5×5.4	17	6.3×5.4	22	6.3×7.7	38
10					4×5.4		4×5.4	15	4×5.4	15	5×5.4	23	6.3×5.4	41	6.3×7.7	38
							5×5.4	21	5×5.4	22	6.3×5.4	25	6.3×7.7	26		
22	4×5.4	22	4×5.4	21	4×5.4	21	5×5.4	26	5×5.4	30	6.3×5.4	43	6.3×7.7	53	8×10.2	90
			5×5.4	26	5×5.4	28	6.3×5.4	37	6.3×5.4	40			8×6.5	80		
33	4×5.4	23	4×5.4	23	5×5.4	29	5×5.4	30	6.3×5.4	45	6.3×7.7	63	8×10.2	116	10×10.2	136
	5×5.4	28	5×5.4	34			6.3×5.4	45	8×6.5	86						
47	4×5.4	26	4×5.4	27	5×5.4	33	5×5.4	30	6.3×5.4	54	6.3×7.7	66	8×10.2	125	10×10.2	148
	5×5.4	34	5×5.4	31	6.3×5.4	48	8×6.5	93	6.3×7.7	75			10×10.2	168		
100	5×5.4	40	5×5.4	40	6.3×5.4	63	6.3×5.4	49	6.3×5.4	45	8×10.2	146	10×10.2	200	125×135	276
	6.3×5.4	52	6.3×5.4	55	6.3×7.7	72	6.3×7.7	93	8×10.2	125						
220	6.3×5.4	69	6.3×5.4	78	6.3×7.7	110	6.3×7.7	93	8×10.2	195	10×10.2	230	12.5×13.5	380		
	6.3×7.7	108	6.3×7.7	110	8×6.5	110	8×10.2	183	10×10.2	230						
330	6.3×7.7	108	6.3×7.7	134	8×10.2		8×10.2	228	10×10.2	247	12.5×13.5	360				
			8×10.2	108												
470	6.3×7.7	125	6.3×7.7	160	8×10.2	240	8×10.2	228	10×10.2	286	12.5×13.5	360				
	8×10.2	214	8×10.2	214	10×10.2	300	10×10.2	286								
680	8×10.2	214	10×10.2	277	10×10.2	322	10×13.5	400	12.5×13.5	440						
							12.5×13.5	440								
1000	8×10.2	235	8×10.2	230	10×10.2	347	12.5×13.5	500			16×16.5	1050				
	10×10.2	310	10×10.2	320												
1500	10×10.2	320	12.5×13.5	540	12.5×13.5	540										
2200	12.5×13.5	600	12.5×13.5	600												

mA额定纹波电流 Rated ripple current(mA, 105°C, 120Hz)

■ 纹波电流修正系数/频率系数 Multiplier For Ripple Current / Frequency coefficient

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

注: 以上所提供的设计及特性参数仅供参考, 任何修改不做预先通知, 如在使用上有疑问, 请在采购前与我们联系, 以便提供技术上的协助。

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