

**RVT-VT**

**宽温品 片式铝电解电容**  
Chip Type Aluminum Electrolytic Capacitors

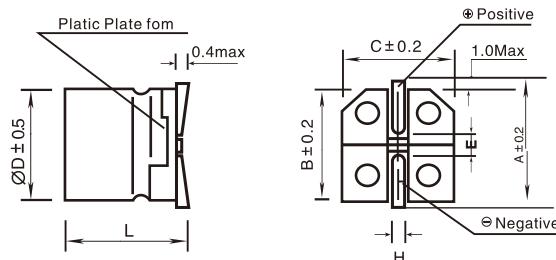
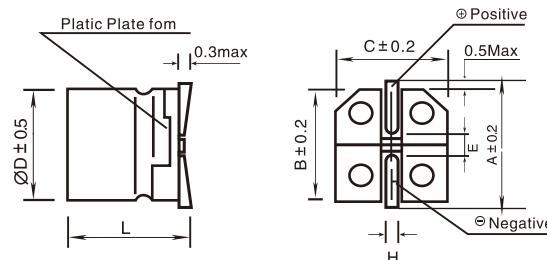
**产品特点 Features**

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：Φ 4mm~Φ 12.5mm  
-55℃~+105℃ temperature range, life 2000 hours; stable performance, high reliability  
The diameter of the product: Φ 4mm~Φ 12.5mm

**■ 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									
标称电容量范围 Nominal Capacitance Range	1μF ~ 2200 μF									
标称电容量允许偏差 Nominal Capacitance Tolerance	± 20%(120Hz,+20 °C)									
泄漏电流范围 Leakage Current(MAX)	I=0.01CV( μA) or 3 ( μA) after 2 minutes I=Leakage Current( μA)    C=Nominal Capacitance( μF)    V=Roted Voltage(V)									
损耗角正切值 Dissipation Factor(MAX) Tan δ (20°C,120Hz)	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
耐久性 Load Life	+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°C, and then resumed 16 hours, the capacitors shall meet the following requirements									
	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						
高温贮存 Shelf Life	+105℃, 贮存1000H后, 放置16H, 电容器应满足以下要求。 After storage for 1000hrs at 105°C, then resumed 16 hours, the capacitors shall meet the following requirements									
	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						
耐焊接热 Resistance to Soldering Heat	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°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement:									
	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						
低温特性及阻抗比 Low Temperature Stability Impedance Ratio (MAX) 120Hz	Roted Voltage (V)	4	6.3	10	16	25	35	50	63	100
	Z-25°C/Z+20°C (120Hz)	< Φ8	7	4	3	2	2	2	2	2
		≥Φ8	7	5	4	3	2	2	2	2
	Z-40°C/Z+20°C (120Hz)	< Φ8	15	8	8	4	4	3	3	3
		≥Φ8	15	10	8	6	4	3	3	3

## ■ 尺寸图 Dimensions



单位: mm

$\Phi D$	L	A	B	C	E	H	Fig.No.
4	$5.4 \pm 0.3$	5.0	4.3	4.3	1.0	0.5~0.9	1
5	$5.4 \pm 0.3$	6.0	5.3	5.3	1.5	0.5~0.9	1
6.3	$5.4 \pm 0.3$	7.2	6.6	6.6	2.1	0.5~0.9	1
6.3	$7.7 \pm 0.3$	7.2	6.6	6.6	2.1	0.5~0.9	1
8	$6.5 \pm 0.5$	9.1	8.3	8.3	3.1	0.8~1.1	1
8	$10.2 \pm 0.5$	9.1	8.3	8.3	3.1	0.8~1.1	1
10	$10.2 \pm 0.5$	11.1	10.3	10.3	4.5	0.8~1.1	1
12.5	$13.5 \pm 0.5$	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		
	$\mu F$	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA
2.2																	
3.3																	
4.7																	
10																	
22	$4 \times 5.4$	22	$4 \times 5.4$	21	$4 \times 5.4$	21	$5 \times 5.4$	26	$5 \times 5.4$	30	$6.3 \times 5.4$	43	$6.3 \times 7.7$	53	$8 \times 10.2$	90	
			$5 \times 5.4$	26	$5 \times 5.4$	28	$6.3 \times 5.4$	37	$6.3 \times 5.4$	40			$8 \times 6.5$	80			
33	$4 \times 5.4$	23	$4 \times 5.4$	23	$5 \times 5.4$	29	$5 \times 5.4$	30	$6.3 \times 5.4$	45	$6.3 \times 7.7$	63	$8 \times 10.2$	116	$10 \times 10.2$	136	
	$5 \times 5.4$	28	$5 \times 5.4$	34			$6.3 \times 5.4$	45	$8 \times 6.5$	86							
47	$4 \times 5.4$	26	$4 \times 5.4$	27	$5 \times 5.4$	33	$5 \times 5.4$	30	$6.3 \times 5.4$	54	$6.3 \times 7.7$	66	$8 \times 10.2$	125	$10 \times 10.2$	148	
	$5 \times 5.4$	34	$5 \times 5.4$	31	$6.3 \times 5.4$	48	$8 \times 6.5$	93	$6.3 \times 7.7$	75			$10 \times 10.2$	168	$10 \times 10.2$		
100	$5 \times 5.4$	40	$5 \times 5.4$	40	$6.3 \times 5.4$	63	$6.3 \times 5.4$	49	$6.3 \times 5.4$	45	$6.3 \times 7.7$	87	$8 \times 10.2$	146	$10 \times 10.2$	200	
	$6.3 \times 5.4$	52	$6.3 \times 5.4$	55	$6.3 \times 7.7$	72	$6.3 \times 7.7$	93	$8 \times 10.2$	125	$10 \times 10.2$	178			$12.5 \times 13.5$	276	
220	$6.3 \times 5.4$	69	$6.3 \times 5.4$	78	$6.3 \times 7.7$	110	$6.3 \times 7.7$	93	$8 \times 10.2$	195	$10 \times 10.2$	230	$12.5 \times 13.5$	380			
	$6.3 \times 7.7$	108	$6.3 \times 7.7$	110	$8 \times 6.5$	110	$8 \times 10.2$	183	$10 \times 10.2$	230							
330	$6.3 \times 7.7$	108	$6.3 \times 7.7$	134	$8 \times 10.2$		$8 \times 10.2$	228	$10 \times 10.2$	247	$12.5 \times 13.5$	360					
				$8 \times 10.2$													
470	$6.3 \times 7.7$	125	$6.3 \times 7.7$	160	$8 \times 10.2$	240	$8 \times 10.2$	228	$10 \times 10.2$	286	$12.5 \times 13.5$	360					
	$8 \times 10.2$	214	$8 \times 10.2$	214	$10 \times 10.2$	300	$10 \times 10.2$	286									
680	$8 \times 10.2$	214	$10 \times 10.2$	277	$10 \times 10.2$	322	$10 \times 13.5$	400	$12.5 \times 13.5$	440							
							$12.5 \times 13.5$	440									
1000	$8 \times 10.2$	235	$8 \times 10.2$	230	$10 \times 10.2$	347	$12.5 \times 13.5$	500			$16 \times 16.5$	1050					
1500	$10 \times 10.2$	320	$12.5 \times 13.5$	540	$12.5 \times 13.5$	540											
2200	$12.5 \times 13.5$	600	$12.5 \times 13.5$	600													

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

## ■ 纹波电流补正系数 / 频率系数 Multiplier For Ripple Current / Frequency coefficient

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

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