

RVT

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



表面安装



小型薄形品



宽温度品



耐清洗品

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 16.5mm
-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 NominalCapacitance Range	1μF ~ 2200 μ F																																																														
标称电容量允许偏差 NominalCapacitance Tolerance	± 20%(120Hz,+20 ℃)																																																														
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><tr><td>Rated Voltage(V)</td><td>4</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>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></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	+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 <table><tr><td>Capacitance Change</td><td>± 30%初始值以内</td><td colspan="8">Within ± 30% of the initial value</td></tr><tr><td>Dissipation Factor</td><td>≤200%初始值以内</td><td colspan="8">Not more than 200% of the specified value</td></tr><tr><td>Leakage Current</td><td>≤初始规定值</td><td colspan="8">Not more than the specified value</td></tr></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	+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 <table><tr><td>Capacitance Change</td><td>± 30%初始值以内</td><td colspan="8">Within ± 30% of the initial value</td></tr><tr><td>Dissipation Factor</td><td>≤200%初始值以内</td><td colspan="8">Not more than 200% of the specified value</td></tr><tr><td>Leakage Current</td><td>≤300%初始值以内</td><td colspan="8">Within 300% of initial specified value</td></tr></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	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: <table><tr><td>Capacitance Change</td><td>± 10%初始值以内</td><td colspan="8">Within ± 10% of the initial value</td></tr><tr><td>Dissipation Factor</td><td>≤初始规定值</td><td colspan="8">Not more than the initial specified value</td></tr><tr><td>Leakage Current</td><td>≤初始规定值</td><td colspan="8">Not more than the initial specified value</td></tr></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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低温特性及阻抗比 Low Temperature Stability Impedance Ratio (MAX) 120Hz	<table><tr><td colspan="2">Roted Voltage (V)</td><td>4</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 rowspan="2">Z-25℃/Z+20℃ (120Hz)</td><td>< Φ8</td><td>7</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>≥ Φ8</td><td>7</td><td>5</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td rowspan="2">Z-40℃/Z+20℃ (120Hz)</td><td>< Φ8</td><td>15</td><td>8</td><td>8</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td></tr><tr><td>≥ Φ8</td><td>15</td><td>10</td><td>8</td><td>6</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table>										Roted Voltage (V)		4	6.3	10	16	25	35	50	63	100	Z-25℃/Z+20℃ (120Hz)	< Φ8	7	4	3	2	2	2	2	2	2	≥ Φ8	7	5	4	3	2	2	2	2	2	Z-40℃/Z+20℃ (120Hz)	< Φ8	15	8	8	4	4	3	3	3	3	≥ Φ8	15	10	8	6	4	3	3	3	3
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■ 尺寸图 Dimensions

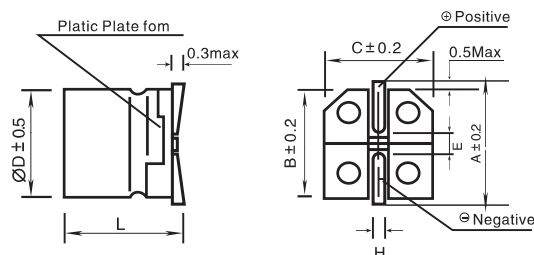


Fig. 1 (Φ4~Φ10)

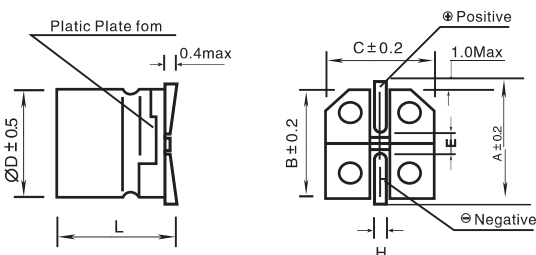


Fig. 2 (≥Φ16.5)

单位: mm

ΦD	L	A	B	C	E	H	Fig.No.
4	5.4 ± 0.5	5.0	4.3	4.3	1.0	0.5~0.9	1
5	5.4 ± 0.5	6.0	5.3	5.3	1.5	0.5~0.9	1
6.3	5.4 ± 0.5	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
16	16.5 ± 0.5	16.7	17	17	6.7	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
0.1											4×5.4	0.7				
0.22											4×5.4	1.6				
0.33											4×5.4	2.5				
0.47											4×5.4	3.5				
0.68											4×5.4	5				
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	
4.7							4×5.4	14	4×5.4	15	4×5.4	14	5×5.4	17	5×5.4	18
											5×5.4	17	6.3×5.4	22	6.3×5.4	23
															6.3×7.7	38
6.8							4×5.4	15								
10					4×5.4	17	4×5.4	15	4×5.4	15	5×5.4	23	6.3×5.4	41	6.3×5.4	34
							5×5.4	21	5×5.4	22	6.3×5.4	25	6.3×7.7	26	6.3×7.7	38
22	4×5.4	22	4×5.4	21	4×5.4	21	5×5.4	26	5×5.4	30			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	6.3×5.4	43	8×6.5	80		
33	4×5.4	23	4×5.4	23			5×5.4	30	6.3×5.4	45	6.3×7.7	63				
	5×5.4	28	5×5.4	34	5×5.4	29	6.3×5.4	45	8×6.5	86	8×6.5	72	8×10.2	116	10×10.2	136
47	4×5.4	26	4×5.4	27	5×5.4	33	5×5.4	30			6.3×7.7	66	8×10.2	125		
	5×5.4	34	5×5.4	31	6.3×5.4	48	8×6.5	93	6.3×7.7	75	8×10.2	120	10×10.2	168	10×10.2	148

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

■ 纹波电流校正系数 / 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络, 以便提供技术上的协助。
 Note: all designs and specifications are for reference only and are subject to change without prior notice, if any doubt about safety for your application, please contact us immediately for technical assistance before purchase.

■ 尺寸图 Dimensions

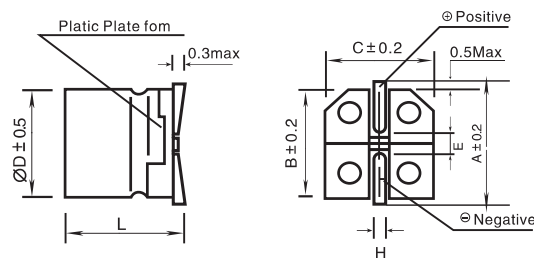


Fig. 1 (Φ4~Φ10)

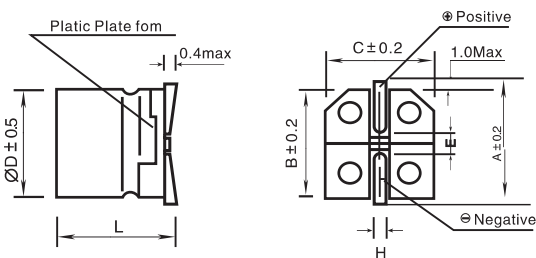


Fig. 2 (≥Φ16.5)

单位: mm

ΦD	L	A	B	C	E	H	Fig.No.
4	5.4 ± 0.5	5.0	4.3	4.3	1.0	0.5~0.9	1
5	5.4 ± 0.5	6.0	5.3	5.3	1.5	0.5~0.9	1
6.3	5.4 ± 0.5	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
16	16.5 ± 0.5	16.7	17	17	6.7	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
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	12.5×13.5	276
	6.3×5.4	52	6.3×5.4	55	6.3×7.7	72	6.3×7.7	93	6.3×7.7	87		178	12.5×13.5	195		
150	6.3×5.4	70	6.3×5.4	78	6.3×7.7	116	6.3×7.7	100	8×10.2	210	8×10.2	238	12.5×13.5	330		
220	6.3×5.4	69	6.3×5.4	78	6.3×7.7	110	6.3×7.7	105	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	201	8×10.2	228	10×10.2	247	10×10.2	230			16×21.5	9000
			8×10.2	108			10×10.2	240			12.5×13.5	360				
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	16×16.5	750		
	8×10.2	214	8×10.2	214	10×10.2	300	10×10.2	286								
680	6.3×7.7	110	10×10.2	277	10×10.2	322	10×13.5	400	10×13.5	400						
	8×10.2	214					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	750						
	10×10.2	310	10×10.2	320												
1500	10×10.2	320	10×12.5	480	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℃, 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

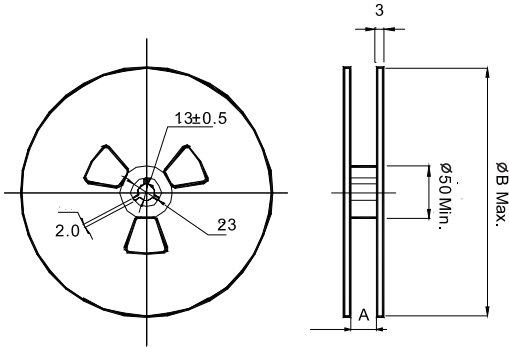
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产品编码解析 Explanation of Part Number

Brand		Series		Rated Voltage		Capacitance	

Brand	Series	R.W Voltage (V)	Code	Capacitance (μ F)	Code	Case Size	Code
RY	VT	4	4V	0.1	0.1UF	4*5.4	4*5
	RVT	6.3	6.3V	0.22	0.22UF	5*5.4	5*5
	RVE	10	10V	0.33	0.33UF	6.3*5.4	6*5
	US	16	16V	0.47	0.47UF	6.3*7.7	6*7
	UZ	25	25V	1	1UF	6.3*10.2	6*10
	UN	35	35V	1.5	1.5UF	8*6.5	8*6
	UH	50	50V	2.2	2.2UF	8*10.2	8*10
	UL	63	63V	3.3	3.3UF	8*12.5	8*12
	UV	80	80V	4.7	4.7UF	10*10.2	10*10
	UD	100	100V	5.6	5.6UF	10*12.5	10*12
	UW	160	160V	6.8	6.8UF	10*13.5	10*13
	SF	200	200V	8.2	8.2UF	12.5*13.5	12*13
	SH	250	250V	10	10UF	12.5*16	12*16
	SL	350	350V	12	12UF	16*16.5	16*16
	SR	400	400V	15	15UF	16*21.5	16*21
	SS	450	450V	22	22UF	18*16.5	18*16
	ST	500	500V	33	33UF	18*21.5	18*21
	SU			47	47UF	20*16.5	20*16
	HS			56	56UF	20*21.5	20*21
				68	68UF		
				100	100UF		
				220	220UF		
				330	330UF		
				470	470UF		
				560	560UF		
				680	680UF		
				820	820UF		
				1000	1000UF		
				1500	1500UF		
				2200	2200UF		
				3300	3300UF		
				4700	4700UF		
				6800	6800UF		

卷筒 Taping Reel And Packing Quantity



规格 Specification	卷装数量 Quantity/Reel	盒装数量 Quantity/Bag	A ± 0.3 (MM)	B ± 2 (MM)
Φ4*5.4	2000 pcs	20000 pcs	14	382
Φ5*5.4	1000 pcs	10000 pcs	14	382
Φ6.3*5.4	1000 pcs	10000 pcs	18	382
Φ6.3*7.7	1000 pcs	10000 pcs	18	382
Φ6.3*10.2	700 pcs	7000 pcs	18	382
Φ8*6.5	1000 pcs	10000 pcs	18	382
Φ8*10.2	500 pcs	5000 pcs	26	382
Φ8*12.5	400 pcs	4000 pcs	26	382
Φ10*10.2	500 pcs	5000 pcs	26	382
Φ10*12.5	400 pcs	4000 pcs	26	382
Φ10*13.5	300 pcs	3000 pcs	26	382
Φ12.5*13.5	200 pcs	1600 pcs	34	382
Φ12.5*16	200 pcs	1600 pcs	34	382
Φ16*16.5	125 pcs	250 pcs	46	332
Φ16*21.5	75 pcs	150 pcs	46	332
Φ18*16.5	125 pcs	250 pcs	46	332
Φ18*21.5	75 pcs	150 pcs	46	332
Φ20*16.5	100 pcs	200 pcs	46	332
Φ20*21.5	50 pcs	100 pcs	46	332

焊接方法和再流焊允许范围 Soldering method and allowable range of the reflow

焊接方式 Soldering Method	再流焊的允许范围 Allowable Range of Reflow
热板再流焊 Hot-Plate Reflow	电容器端面上峰值温度 Peak temp at capacitor Terminal(℃) 再流焊时间(秒) Reflow time(second)
红外线再流焊 Infrared-Ray Reflow	电容器端面上峰值温度 Peak temp at capacitor Terminal(℃) 再流焊时间(秒) Reflow time(second)

