

UH 高可靠品 片式铝电解电容

Chip Type Aluminum Electrolytic Capacitors



表面安装



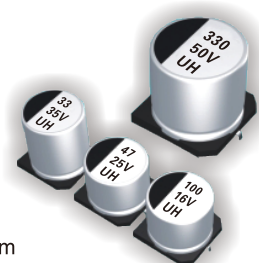
小型薄形品



长寿命品



耐清洗品



产品特点 Features

适用-55℃~+125℃温度范围；寿命2,000~5,000小时；性能稳定，可靠性高；产品直径：φ6mm~φ18mm
 -55℃ ~+125℃ temperature range; life 2000~5000 hours; stable performance, high reliability
 product diameter: φ6mm~ φ18mm

主要技术性能 Specifications

项目 Items	特性 Characteristics																
工作温度范围 Category Temperature Range	-55℃ ~+125℃																
额定电压范围 Rated Voltage Range	10~450V.DC																
标称电容量范围 Nominal Capacitance Range	1 μ F ~ 4700 μ F																
标称电容量允许偏差 Nominal Capacitance Tolerance	$\pm$ 20%(120Hz,+20 ℃)																
泄漏电流范围 Leakage Current(MAX)	10~100Vdc								160~450Vdc				(20 ℃)				
	$\leq 10 \times 10.2$				$\geq 10 \times 13.5$				$I \leq 0.04CV(\mu A) + 100(\mu A)$ (after 2 minutes)								
	$I \leq 0.01CV(\mu A) \text{ or } 3(\mu A)$ 取较大者 whichever is greater(after 2 minutes)													$I \leq 0.03CV(\mu A) \text{ or } 4(\mu A)$ 取较大者 whichever is greater(after 2 minutes)			
	$I = \text{Leakage Current}(\mu A)$													$C = \text{Nominal Capacitance}(\mu F)$			
损耗角正切值 Dissipation Factor(MAX) Tan δ (20℃,120Hz)	Rated Voltage (V)		10	16	25	35	50	63	80	100	160~250	400~450					
	Tan $\delta \leq$	$\leq 10 \times 10.2$	0.24	0.20	0.16	0.14	0.14	0.12	0.12	0.10	0.24	0.30					
		$\geq 10 \times 12.5$	0.22	0.18	0.16	0.14	0.12	0.14	—	0.10	0.20	0.24					
	额定电容量大于1000 μ F者，每增加1000 μ F，其损耗角正切值增加0.02 when nominal capacitance exceeds 1000 μ F, add 0.02 to the value above for 1000 μ F increase																
耐久性 Load Life	在125℃环境中，连续施加额定直流电压规定时间，常温恢复16小时后进行测量时，电容器应满足以下要求。 In the environment of 125 ℃ degrees,the time of continuous application of the rated DC voltage, After 16 hours were measured at room temperature,the capacitor should meet the following requirements:																
	Capacitance Change	$\pm$ 30%初始值以内 Within $\pm$ 30% of the initial value								寿命 life time $\leq 8 \times 6.5(10\sim 100Vdc):2000\text{hours}$							
	Dissipation Factor	$\leq$ 300%初始值以内 Not more than 300% of the specified value								$8 \times 10.2\sim 10 \times 13.5$ (10~100Vdc):2000hours							
	Leakage Current	$\leq$ 初始规定值 Not more than the specified value								$\geq 12.5 \times 13.5(10\sim 100Vdc):5000\text{hours}$ (160~450Vdc):3000hours							
高温贮存 Shelf Life	在125℃环境中,无负荷放置2000小时(400~450V: 500小时),常温恢复16小时后进行测量时,电容器应满足以下要求。 The following specifications shall be satisfied,After 16hours were measured at room temperature,after exposing them for 2000hours(400~450V:500hours)at 125 ℃ without voltage application:																
	Capacitance Change	$\pm$ 30%初始值以内 Within $\pm$ 30% of the initial value															
	Dissipation Factor	$\leq$ 300%初始值以内 Not more than 300% of the specified value															
	Leakage Current	$\leq$ 500%初始值以内 Within 500% 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 the hot plate maintained at 250℃ for 30 seconds.After removing from the hot plate and restored at room temperature, they meet the following requirement:																
	Capacitance Change	$\pm$ 10%初始值以内 Within $\pm$ 10% of the initial value															
	Dissipation Factor	$\leq$ 初始规定值 Not more than the initial specified value															
	Leakage Current	$\leq$ 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	Rated Voltage (V)		10	16	25	35	50	63	80	100	160~250	400~450					
	$\leq 10 \times 10.2$	Z-25℃/Z+20℃	3	2	2	2	2	2	2	2	6	6					
		Z-40℃/Z+20℃	6	4	4	3	3	3	3	3	10	18					
	$\geq 10 \times 13.5$	Z-25℃/Z+20℃	4	3	2	2	2	2	—	2	6	6					
		Z-40℃/Z+20℃	8	6	4	3	3	3	—	3	10	18					

■ 尺寸图 Dimensions

单位: mm

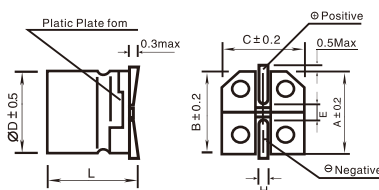


Fig. 1 (Φ4~Φ10)

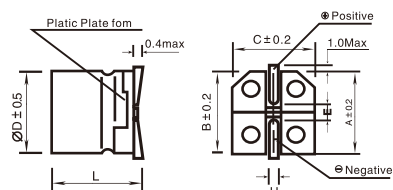


Fig. 2 (≥ Φ12.5)

ΦD	L	A	B	C	E	H	Fig.No.
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
10	10 ± 12.5	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
12.5	16 ± 0.5	13.7	13.0	13.0	4.4	1.0~1.4	2
16	16.5 ± 0.5	18.0	17.0	17.0	6.4	1.0~1.4	2
16	21.5 ± 0.5	18.0	17.0	17.0	6.4	1.0~1.4	2
18	16.5 ± 0.5	20.0	19.0	19.0	6.4	1.0~1.4	2
18	21.5 ± 0.5	20.0	19.0	19.0	6.4	1.0~1.4	2

■ 标准品一览表 Standard Size

WV	10			16			25			35		
uF壳号	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA
10										6.3×5.4	0.14	69
22										6.3×5.4	0.14	69
33							6.3×5.4	0.16	69	6.3×7.7	0.14	110
										8×6.5	0.14	110
47				6.3×5.4	0.20	69	6.3×7.7	0.16	110	6.3×7.7	0.14	110
							8×6.5	0.16	110	8×6.5	0.14	110
										8×10.2	0.14	220
100	6.3×7.7	0.24	110				6.3×7.7	0.16	110	8×10.2	0.14	220
	8×6.5	0.24	110	8×10.2	0.20	220	8×6.5	0.16	110	10×10.2	0.14	296
							8×10.2	0.16	220			
220	6.3×7.7	0.24	110	8×10.2	0.20	220	8×10.2	0.16	220	10×10.2	0.14	296
	8×6.5	0.24	110									
	8×10.2	0.24	220	10×10.2	0.20	296	10×10.2	0.16	296			
	10×10.2	0.24	296									
330				10×10.2	0.20	296	10×10.2	0.16	296	12.5×13.5	0.14	750
							12.5×13.5	0.16	750	16×16.5	0.14	1000
470	10×10.2	0.24	296	12.5×13.5	0.18	750	12.5×13.5	0.16	750	12.5×16	0.14	900
							16×16.5	0.16	1000	16×16.5	0.14	1000
680	12.5×13.5	0.22	618	12.5×13.5	0.18	750	16×16.5	0.16	1000	18×16.5	0.14	1200
				16×16.5	0.18	1000	18×16.5	0.16	1200			
1000	12.5×13.5	0.22	750	18×16.5	0.18	1200	18×16.5	0.16	1550			
2200	16×16.5	0.24	1000									
	18×16.5	0.24	1200									
3300	18×16.5	0.26	1200									
4700	18×16.5	0.28	1550									

WV	50			63			80			100			WV	160			200V			250V			400V			450V		
uF壳号	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	uF壳号	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA	D×Lmm	tan δ	mA
10	6.3×5.4	0.14	51				8×10.2	0.12	70	8×10.2	0.10	70	1										10×10.2	0.24	22			
	8×6.5	0.14	83	6.3×7.7	0.12	60							2.2										10×12.5	0.24	37	12.5×13.5	0.24	35
22	6.3×7.7	0.14	83	8×10.2	0.12	100	8×10.2	0.12	70	8×10.2	0.10	70	3.3										12.5×13.5	0.24	50	12.5×16	0.24	45
	8×6.5	0.14	83				10×10.2	0.12	115	10×10.2	0.10	115	4.7										12.5×16	0.24	70	16×16.5	0.24	60
33	6.3×7.7	0.14	83	10×10.2	0.12	170	8×10.2	0.12	70	10×10.2	0.10	115	6.8										16×16.5	0.24	100			
	8×6.5	0.14	83				10×10.2	0.12	115				10	10×12.5	0.20	87	12.5×16	0.20	110	12.5×16	0.20	110	16×21.5	0.24	130	16×21.5	0.24	110
47	8×10.2	0.14	160	10×10.2	0.12	170	10×10.2	0.12	115	12.5×13.5	0.10	450	15				12.5×16	0.20	150	12.5×16	0.20	150	16×21.5	0.24	160	18×21.5	0.24	150
	10×10.2	0.14	247							12.5×16	0.10	550	22	12.5×16	0.20	180	16×16.5	0.20	200	16×21.5	0.20	210	18×21.5	0.24	240	18×21.5	0.24	230
68													33	16×16.5	0.20	220	16×21.5	0.20	250	16×21.5	0.20	250						
100	10×10.2	0.14	247	12.5×13.5	0.14	500				16×16.5	0.10	650	47	16×21.5	0.20	260	18×21.5	0.20	320	18×21.5	0.20	320						
	12.5×13.5	0.14	550										68	16×21.5	0.20	310												
220	12.5×13.5	0.14	550	12.5×16	0.14	600				18×21.5	0.10	950	100	18×21.5	0.20	400												
	16×16.5	0.14	850																									
330	12.5×16	0.14	700	16×16.5	0.14	820																						
	16×16.5	0.14	850																									
470	18×16.5	0.14	920	16×21.5	0.14	1100																						

mA额定纹波电流Rated ripple current(mA, 130℃, 100kHz)

■ 纹波电流校正系数/频率系数 Multiplier For Ripple Current / Frequency coefficient

Rated Voltage(V)	Dimensions	Cap	Frequency	120Hz	1kHz	10kHz	100kHz
10~100	≤10×10.2		10	0.66	0.86	0.93	1.00
			22~470	0.93	0.97	1.00	1.00
			47~100	0.40	0.75	0.90	1.00
	≥12.5×13.5		220~470	0.50	0.85	0.94	1.00
			680~1000	0.60	0.87	0.95	1.00
			2200~3300	0.75	0.90	0.95	1.00
160~450	≥12.5×13.5		4700	0.85	0.95	0.98	1.00
			3.3~33	0.55	0.83	0.97	1.00
			47~68	0.66	0.86	0.93	1.00

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。

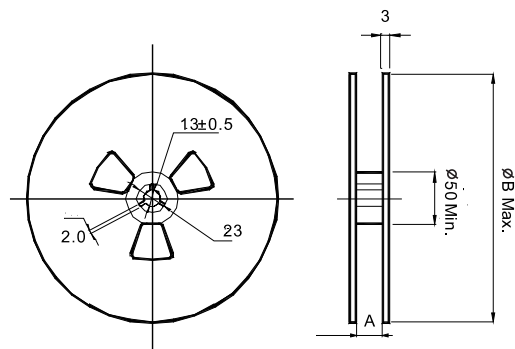
Note: all designs and specifications are for reference only and are subject to change without prior notice, if any doubt about safety for your application, please contact us immediately for technical assistance before purchase.

产品编码解析 Explanation of Part Number

Series	Rated Voltage		Capacitance		Tol.	Case Size		

Series	R.W Voltage (V)	Code	Capacitance (μ F)	Code	Cap.Tol	Code	Case Size	Code
VT	4	0G	0.1	0R1	± 5	J	4*5.4	0405
RVT	6.3	0J	0.22	R22	± 10	K	5*5.4	0505
RVE	10	1A	0.33	R33	± 15	L	6.3*5.4	0605
US	16	1C	0.47	R47	± 20	M	6.3*7.7	0607
UZ	25	1E	1	1R0	± 30	N	6.3*10.2	0610
UN	35	1V	1.5	1R5	+ 20 - 10	V	8*6.5	0806
UH	50	1H	2.2	2R2	+ 20 - 5	H	8*10.2	0810
UL	63	1J	3.3	3R3	+ 10 - 20	C	8*12.5	0812
UV	80	1K	4.7	4R7	+ 100 - 0	P	10*10.2	1010
UD	100	2A	5.6	5R6	+ 30 - 10	Q	10*12.5	1012
UW	160	2C	6.8	6R8	+ 20 - 0	R	10*13.5	1013
SF	200	2D	8.2	8R2	+ 50 - 10	T	12.5*13.5	1213
SH	250	2E	10	100	+ 75 - 10	U	12.5*16	1216
SL	350	2V	12	120	+ 40 - 20	X	16*16.5	1616
SR	400	2G	15	150	+ 50 - 20	S	16*21.5	1621
SS	450	2W	22	220	+ 80 - 20	Z	18*16.5	1816
ST	500	2H	33	330			18*21.5	1821
SU			47	470			20*16.5	2016
HS			56	560			20*21.5	2021
			68	680				
			100	101				
			220	221				
			330	331				
			470	471				
			560	561				
			680	681				
			820	821				
			1000	102				
			1500	152				
			2200	222				
			3300	332				
			4700	472				
			6800	682				

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	再流焊时间(秒) Reflow time(second)
红外线再流焊 Infrared-Ray Reflow	再流焊时间(秒) Reflow time(second)

